# THE NIMBUS 5 DATA CATALOG

# VOLUME 2

## 1 FEBRUARY 1973 THROUGH 31 MARCH 1973

## DATA ORBITS 694 THROUGH 1485

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GODDARD SPACE FLIGHT CENTER

GREENBELT, MARYLAND

# THE NIMBUS 5 DATA CATALOG

Volume 2

1 February 1973 through 31 March 1973
Data Orbits 694 through 1485

Prepared by

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For the

ERTS/Nimbus Project

September 1973

GODDARD SPACE FLIGHT CENTER
Greenbelt, Maryland

# FOREWORD

This is the second volume of a series of catalogs published by the National Aeronautics and Space Administration to document data acquired from the Nimbus 5 Meteorological Satellite. This volume covers the period from 1 February 1973 through 31 March 1973 with subsequent catalogs to contain documentation for succeeding periods throughout the useful lifetime of Nimbus 5.

Background information concerning the Nimbus 5 Meteorological Satellite system and a description of the experiments and data formats have been published separately in The Nimbus 5 User's Guide, with post-launch User's Guide information changes and corrections included in the data catalogs. The Nimbus 5 catalogs present the type of data available, anomalies in the data, if any, and geographic location and time of the data.

The assembly and editing of this catalog was accomplished by Allied Research Associates, Inc. (ARA), Baltimore, Maryland, under contract number NAS 5-21617 with the Goddard Space Flight Center, NASA, Greenbelt, Maryland.

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TABLE OF CONTENTS


| | | Page |
|---|---|---|
| FOREWORD | | iii |
| LIST OF FIGURES | | vi |
| LIST OF TABLES | | vii |
| SECTION 1. | SUMMARY OF OPERATIONS | 1-1 |
| 1.1 | Introduction | 1-1 |
| 1.2 | The Temperature Humidity Infrared Radiometer (THIR) Subsystem | 1-2 |
| 1.3 | The Surface Composition Mapping Radiometer (SCMR) Experiment | 1-2 |
| 1.4 | The Electrically Scanning Microwave Radiometer (ESMR) Experiment | 1-2 |
| 1.5 | The Infrared Temperature Profile Radiometer (ITPR) Experiment | 1-3 |
| 1.6 | The Selective Chopper Radiometer (SCR) Experiment | 1-3 |
| 1.7 | The Nimbus E Microwave Spectrometer (NEMS) Experiment | 1-6 |
| SECTION 2. | ORBITAL ELEMENTS AND DATA AVAILABILITY ON-OFF TIMES | 2-1 |
| SECTION 3. | ELECTRICALLY SCANNING MICROWAVE RADIOMETER DISPLAYS | 3-1 |
| SECTION 4. | TEMPERATURE HUMIDITY INFRARED RADIOMETER MONTAGES | 4-1 |
| 4.1 | THIR Nighttime Montages | 4-3 |
| 4.2 | THIR Daytime Montages | 4-123 |
| SECTION 5. | CORRECTIONS TO THE NIMBUS 5 USER'S GUIDE | 5-1 |
| 5.1 | THIR Corrections to the User's Guide | 5-1 |
| 5.2 | SCMR Corrections to the User's Guide | 5-4 |
| 5.3 | ESMR Corrections to the User's Guide | 5-4 |
| 5.4 | ITPR Corrections to the User's Guide | 5-7 |
| 5.5 | SCR Corrections to the User's Guide | 5-9 |
| 5.6 | NEMS Corrections to the User's Guide | 5-9 |

LIST OF FIGURES


| Figure | | Page |
|---|---|---|
| 1-1 | Nimbus 5 ESMR Brightness Temperatures of Asia for 9 and 10 February 1973 on a Mercator Projection Map. (Original, in color, produced on an EIS color machine.) | 1-4 |
| 1-2 | Nimbus 5 ESMR Brightness Temperature of the North Polar Area for 30 January 1973 on a Polar Projection Map. (Original, in color, produced on an EIS color machine.) | 1-5 |
| 1-3 | Northern Hemisphere Stereographic Map of Radiances Derived from SCR Channel B23 for 3 February 1973 | 1-7 |
| 1-4 | Northern Hemisphere Stereographic Map of Radiances Derived from SCR Channel B23 for 5 March 1973 | 1-9 |
| 1-5 | Northern Hemisphere Stereographic Map of Radiances Derived from SCR Channel B23 for 31 March 1973 | 1-10 |
| 1-6 | Southern Hemisphere Stereographic Map of Radiances Derived from SCR Channel B23 for 3 February 1973 | 1-11 |
| 1-7 | Atmospheric Layer Thickness Derived from NEMS Temperature Soundings | 1-12 |
| 2-1 | World Map | 2-3 |

LIST OF TABLES


| Table | | Page |
|---|---|---|
| 1-1 | ESMR Color Images Available at NSSDC | 1-6 |
| 1-2 | Temperatures Equivalent to Radiances Measured by Channels B12, B23, and B34 of the Nimbus 5 SCR | 1-8 |
| 2-1 | Nimbus 5 Brouwer Mean Orbital Elements for February and March 1973 | 2-1 |
| 2-2 | Data Availability On-Off Times | 2-5 |
| 3-1 | ESMR Gray Scale Steps versus Brightness Temperature for Each of the Three Swaths in the ESMR Pictorial Displays | 3-2 |
| 3-2 | ESMR Display Format and Gray Scale Brightness Temperature Programs | 3-4 |
| 4-1 | Latitude versus Minutes from Ascending or Descending Node | 4-2 |
| 5-1 | THIR Output Voltages versus Equivalent Blackbody Temperatures at Different Bolometer Temperatures for the 11.5 $\mu$m Channel | 5-1 |
| 5-2 | THIR Output Voltages versus Equivalent Blackbody Temperatures at Different Bolometer Temperatures for the 6.7 $\mu$m Channel | 5-3 |
| 5-3 | Constants for Linear Correction of Brightness Temperatures Corresponding to ESMR Beam Positions | 5-5 |
| 5-4 | ITPR Calibration Constants for the Period 2/6/73 - 3/31/73 | 5-7 |
| 5-5 | ITPR Calibration Constants for the Period 12/12/72 - 2/6/73 | 5-8 |

SECTION 1

# SUMMARY OF OPERATIONS

## 1.1 Introduction

Nimbus 5 was successfully launched from the Western Test Range at Vandenberg AFB, California, into a near circular orbit (1089 km x 1102 km) at 07 hr 56 min 00 sec GMT on 11 December 1972. All experiments and subsystems were successfully turned on. Satellite operations from launch (11 December) through orbit 103 (18 December) consisted of engineering evaluation of all spacecraft systems. Therefore, data reception, accountability, and processing were intermittent during that period. Volume 1 of this catalog reflects documentation from orbit 104 (19 December 1972) through orbit 693 (31 January 1973). Volume 2 covers orbit 694 (1 February 1973) through orbit 1485 (31 March 1973).

The sensory data output and total operating time from launch through orbit 1485 were as follows:

| | |
|---|---|
| ESMR | 2280 hours |
| ITPR | 2283 hours |
| NEMS | 2283 hours |
| SCR | 2283 hours |
| THIR | 2285 hours |
| SCMR; direct | 29 hours (No useable SCMR data was recorded after orbit 320.) |
| ;recorded | 6 hours |

The spacecraft attitude in pitch was biased at +2.9 degrees throughout this catalog period. A positive pitch angle of 2.9 degrees moves the principal point 55.6 km behind the sub-satellite point. When the spacecraft has a pitch bias applied, a scanner type instrument no longer scans the earth along a great circle arc, but scans along the small circle formed by the intersection of the scan plane with the earth. Since the plane of the small circle is tilted with respect to the nominal scan plane, points on the arc are displaced farther from the great circle as the scan angle increases. Thus, although the instrument records in lines normal to the orbit plane (in the absence of yaw), the displacement is not uniform across the scan line.

Subsections 1.2 through 1.7 of this catalog summarize the operational highlights of the individual experiments and call attention to known data anomalies. Section 2 lists the time for which data was received and is available for study for each experiment. Sections 3 and 4 show ESMR and THIR imagery, while Section 5 presents corrections to The Nimbus 5 User's Guide.

The user is referred to The Nimbus 5 User's Guide for a complete description of each experiment and to Section 1.7 of that Guide for the requesting procedure and sources for all data. Sections 2, 3, and 4 of this Data Catalog should help the user to select data to meet his needs.

## 1.2 The Temperature Humidity Infrared Radiometer (THIR) Subsystem

The quality of the THIR data from both channels (11.5 $\mu$m and 6.7 $\mu$m) has been excellent. Root mean square (rms) THIR temperature variations, due to flutter in the HDRSS tape recorders and to normal noise components, appear to be less than 2°K.

All processed THIR film is archived and available through the National Space Science Data Center, as is all available THIR digital data. The THIR digital products are processed to final format only on request. Sections 1.7 and 2.4 of The Nimbus 5 User's Guide discuss the formats and procedures to order these products.

## 1.3 The Surface Composition Mapping Radiometer (SCMR) Experiment

The SCMR experiment collected and returned approximately 35 hours of instrument data during the first 320 orbits. Intermittent loss of a scan mirror synchronization pulse caused a loss of useful data output whenever this occurred. This synchronization problem progressed to the point where no useable data could be obtained after orbit 320 (4 January 1973).

Users who desire SCMR data or information should write to Dr. Warren G. Hovis, Code 652, Goddard Space Flight Center, Greenbelt, Maryland 20771.

## 1.4 The Electrically Scanning Microwave Radiometer (ESMR) Experiment*

### 1.4.1 Performance

The ESMR instrument performed well from 1 February to 28 February (orbit 1062). During this period the only instrument problem was an occasional data dropout which lasted anywhere from 1 to 32 seconds, except for one dropout that lasted for approximately 12 minutes. After each dropout the instrument returned to a normal operating mode.

Starting at 1110 GMT during orbit 1062 (28 February) and continuing to the end of this catalog period, a malfunction reduced the ESMR instrument response to the range between 110°K and 220°K of brightness temperature. Before the malfunction the range was between 110°K and about 300°K. The effect of the malfunction shifts the range to which the instrument can respond. There is no way to recover temperature data above 220°K. However, by applying offset corrections, temperature values below 220°K are considered to be accurate to within 10°K. Because many polar and atmos-

*Contributed by Dr. T. Wilheit, Jr., LMES/GSFC.

pheric phenomena have brightness temperatures lower than 220°K, investigations of these phenomena will be only slightly affected by the loss of high brightness temperatures.

On the ESMR image displays (Section 3) the effect of the temperature offset is to completely eliminate data information in swath 3, since its entire display temperature range, 254°K to 290°K, is above the new upper limit. Swath 2 temperature values range from 194°K to 266°K; thus, those values above 220°K are not shown at their true temperature. The offset does not affect values of Swath 1, as its temperature limits are 110°K and 200°K.

A semi-quantative calibration algorithm has been developed for these offset data. These calibrated data, as well as the normal data, are available through NSSDC as described in The Nimbus 5 User's Guide.

### 1.4.2 ESMR False Color Images

Several of the computer-processed color images mentioned on page 102 (Section 4.4.5) of The Nimbus 5 User's Guide have been produced and are available. However, there are problems of quality, some artifacts are visible, and the longitudes are rotated 180° on the South Polar images. Figures 1-1 and 1-2 are black and white presentations of two of these color images. Table 1-1 lists the color images available through NSSDC.

## 1.5 The Infrared Temperature Profile Radiometer (ITPR) Experiment

The ITPR was operated primarily with the scan off, viewing the nadir direction only, except for the following orbits during which the scan was on for at least 6 hours: 970-975, 1049-1055, 1143-1149, 1332-1337, 1412-1418, 1439-1445, 1466-1472. During these orbits, the scan was on from 45°S to 60°N latitude. The scan was turned on during other orbits but remained on for shorter periods due to erratic behavior.

The radiometric data has continued to be of excellent quality with no indication of degradation.

## 1.6 The Selective Chopper Radiometer (SCR) Experiment*

The SCR performance has been satisfactory through the end of this catalog.

The data is transmitted daily from GSFC to Oxford, England where routine processing is carried out. Contoured charts of radiance (in ergs) are prepared from each 24 hours of data. Four of these charts from February and March data are discussed in the following paragraphs.

The warming of late January 1973 (see The Nimbus 5 Data Catalog, Vol. 1) left the northern hemisphere polar stratosphere relatively warm for winter. Maximum

*Contributed by J. J. Barnett, Oxford University, Oxford, England.

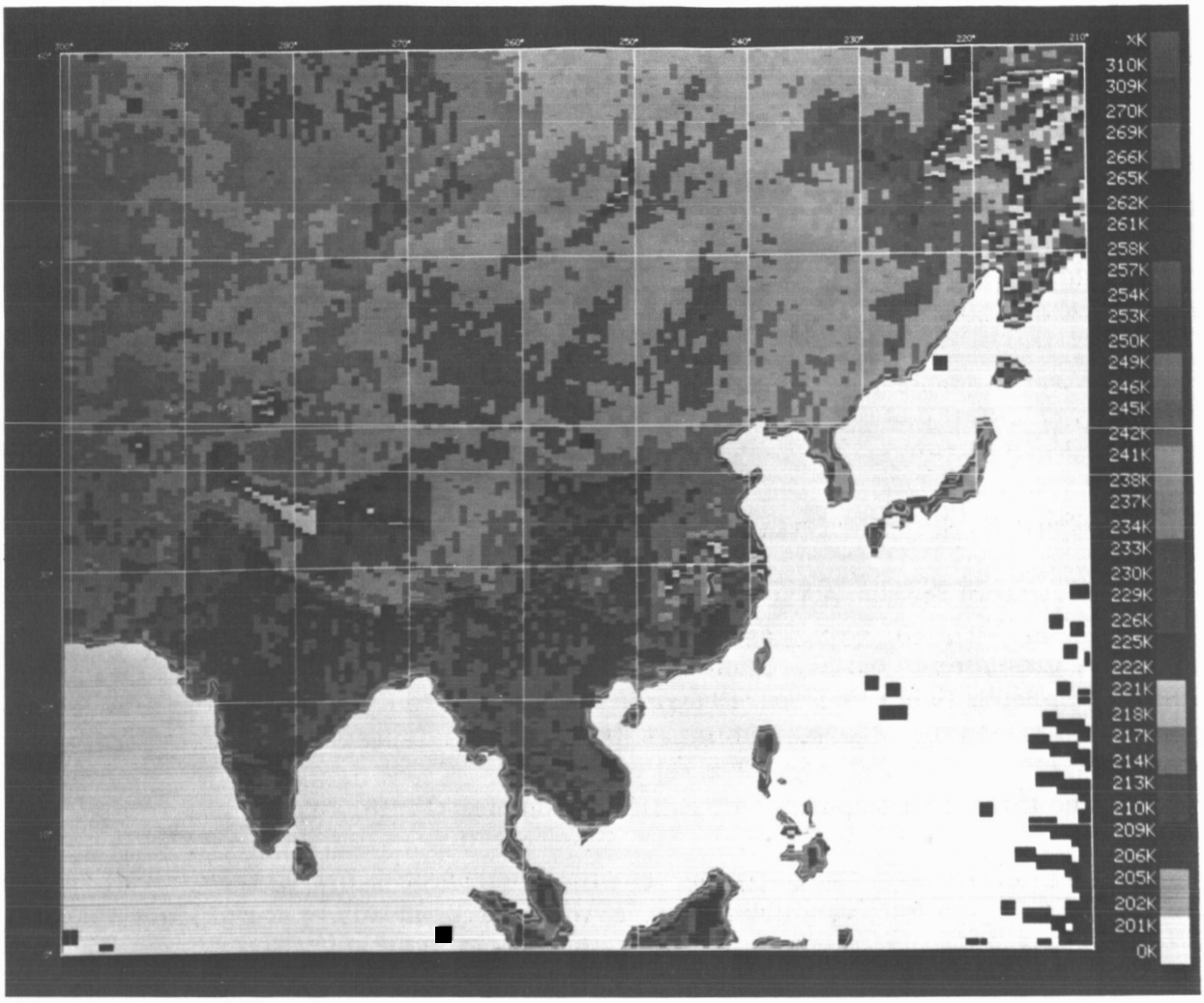



Figure 1-1 Nimbus 5 ESMR Brightness Temperatures of Asia for 9 and 10 February 1973 on a Mercator Projection Map. (Original, in color, produced on an EIS color machine.)

temperatures at channel B23* levels (where the weighting function peaks at 4 mb, ~37 km) were reached on about 30 January. The decay of the warming, as conditions returned to those more typical of winter, was as interesting as the initial period of large amplitude planetary waves and associated temperature rise. Theory indicates that for stationary disturbances, only those of low wavenumber (long wavelength) should propagate upwards in the strong westerly zonal mean wind normally found in winter. Higher wavenumber disturbances should propagate in a weaker westerly flow, while wave absorption should occur in an easterly flow. This probably accounts for the absence of large amplitude planetary waves in the stratosphere during summer, when flow is easterly. It implies that the weak westerly or easterly winds occurring after a large

*B23 is the normalized difference between SCR channel B2 and channel B3.




Figure 1-2 Nimbus 5 ESMR Brightness Temperature of the North Polar Area for 30 January 1973 on a Polar Projection Map. (Original, in color, produced on an EIS color machine.)

warming (because the pole is warm by the thermal wind relation) might either allow the propagation of high wavenumber waves or inhibit wave propagation altogether, depending on the direction of the flow.

Figure 1-3 is a northern hemisphere map of channel B23 radiance derived from observations on 3 February 1973. Table 1-2 gives the conversion from radiance to equivalent temperature. Wavenumber three (three waves around the globe) dominated the temperature field, which was of this form from about 31 January until 5 February. This was possibly the first time that Nimbus 4 or 5 SCR stratospheric data have shown a dominant wavenumber other than one or two. The short wavelengths may have been produced by the above discussed mechanism of weak westerlies allowing their upward propagation from the troposphere. But equally possible was their production by in situ energy transformations from other wavenumbers or from the zonal mean flow.

Table 1-1

ESMR Color Images Available at NSSDC

| Item | Projection | Area | Date |
|---|---|---|---|
| 1. | Polar | 60°N-90°N | Dec. 15, 1972 |
| 2. | Polar | 60°S-90°S | Dec. 15 |
| 3. | Polar | 60°N-90°N | Jan. 11, 1973 |
| 4. | Polar | 60°S-90°S | Jan. 11 |
| 5. | Mercator | 130°E-110°W; 50°S-50°N | Jan. 13 |
| 6. | Mercator | 20°E-40°E; 10°N-40°N | Jan. 13 |
| 7. | Mercator | 130°E-110°W; 50°S-50°N | Jan. 14 |
| 8. | Mercator | 60°E-150°E; 0°-60°N | Jan. 14 |
| 9. | Mercator | 20°W-60°E; 0°-75°N | Jan. 18 |
| 10. | Mercator | 60°W-130°W; 10°N-60°N | Jan. 23 |
| 11. | Polar | 60°S-90°S | Jan. 30 |
| 12. | Polar | 60°N-90°N | Jan. 30 |
| 13. | Mercator | 60°E-150°E; 0°-60°N | Feb. 10 |

The temperature field was predominantly of wavenumber one after 6 February but gradually became more symmetric, with the Polar area cooling, until the conditions shown in Figure 1-4 (5 March) were reached about 20 February. The pattern started to become asymmetric on 13 March, with the hemisphere also becoming warmer at these levels. Figure 1-5 shows the situation at the end of March, with a cold center over western Greenland and a cold arm extending over eastern Asia.

Figure 1-6 is included to show the zonally symmetric conditions prevailing in the southern hemisphere, which was in summer at this time.

## 1.7 The Nimbus E Microwave Spectrometer (NEMS) Experiment

The NEMS subsystem continued to perform well during this catalog period.

The NEMS experimenter continues to analyze and experiment with the data sent to him at MIT. One of the analysis formats is the atmospheric density layer thickness chart. Figure 1-7 is one of these charts of the variable thickness of the 500 mb - 250 mb layer for the northern hemisphere for 18 February 1973.

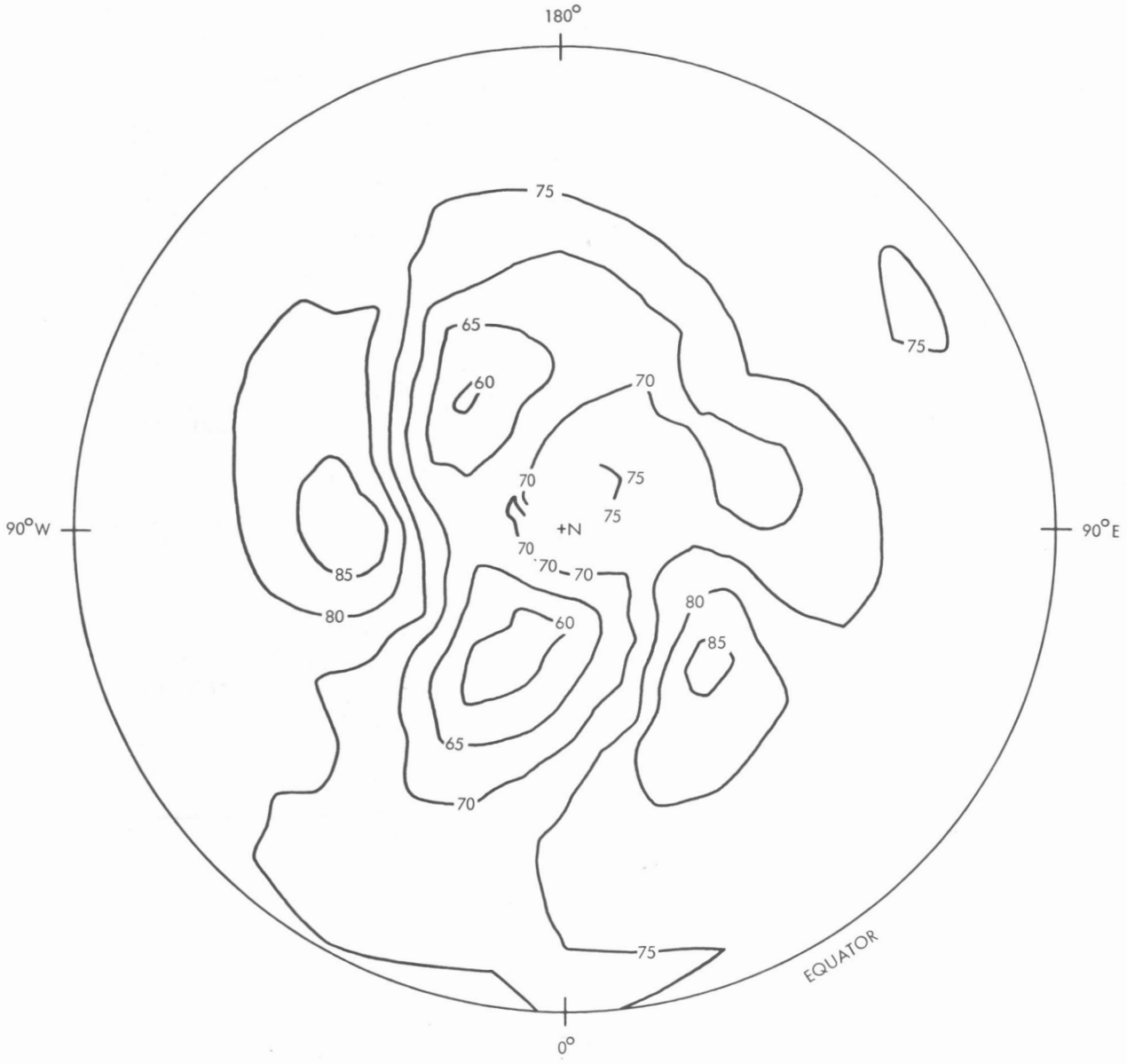



Figure 1-3 Northern Hemisphere Stereographic Map of Radiances Derived from SCR Channel B23 for 3 February 1973. The unit is mw/m$^2$ ster cm$^{-1}$. See Table 1-2 for conversion to temperatures.

Table 1-2

Temperatures Equivalent to Radiances Measured by Channels B12*, B23* and B34* of the Nimbus 5 SCR

| Radiance $mw/m^2$ ster $cm^{-1}$ | Temperature °K |
|---|---|
| 25 | 193.7 |
| 30 | 201.0 |
| 35 | 207.6 |
| 40 | 213.7 |
| 45 | 219.4 |
| 50 | 224.7 |
| 55 | 229.8 |
| 60 | 234.6 |
| 65 | 239.2 |
| 70 | 243.6 |
| 75 | 247.8 |
| 80 | 251.9 |
| 85 | 255.9 |
| 90 | 259.8 |
| 95 | 263.5 |
| 100 | 267.2 |
| 105 | 270.7 |
| 110 | 274.2 |
| 115 | 277.6 |
| 120 | 281.0 |
| 125 | 284.3 |
| 130 | 287.5 |

*Normalized difference between B1 and B2, B2 and B3, and B3 and B4.

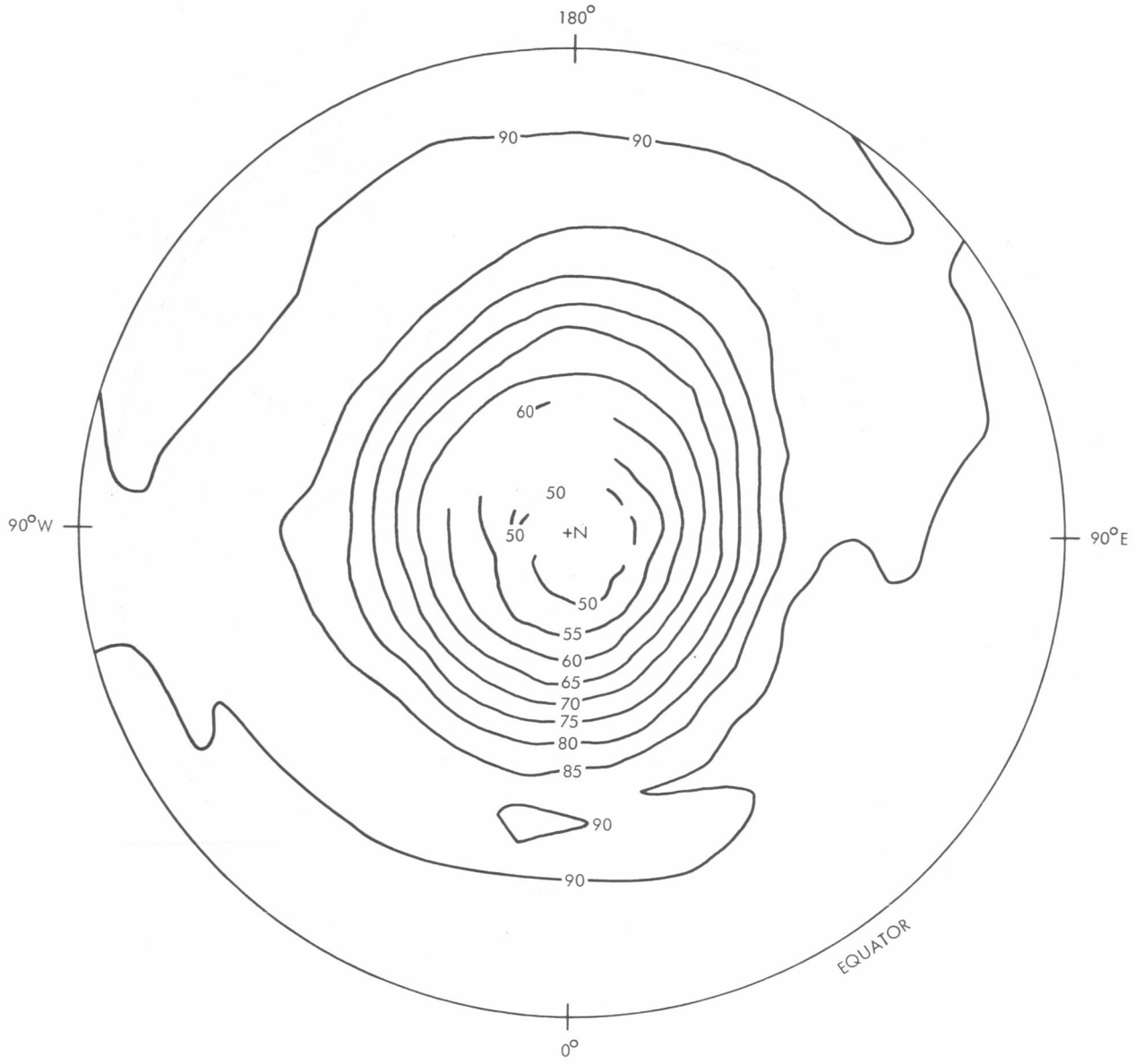



Figure 1-4 Northern Hemisphere Stereographic Map of Radiances Derived from SCR Channel B23 for 5 March 1973. The unit is mw/m$^2$ ster cm$^{-1}$. See Table 1-2 for conversion to temperature.

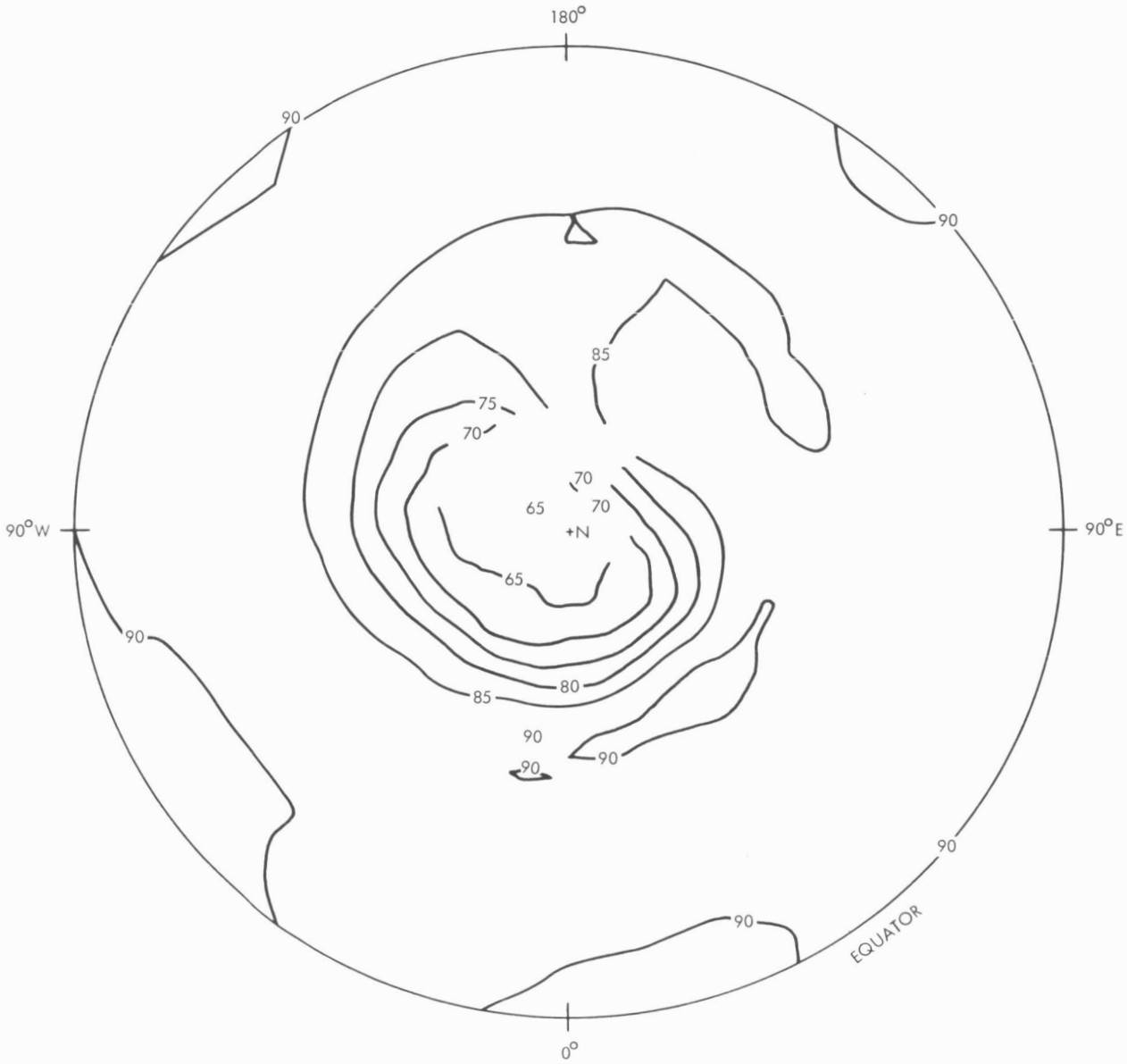



Figure 1-5 Northern Hemisphere Stereographic Map of Radiances Derived from SCR Channel B23 for 31 March 1973. The unit is $mw/m^2$ ster $cm^{-1}$. See Table 1-2 for conversion to temperature.

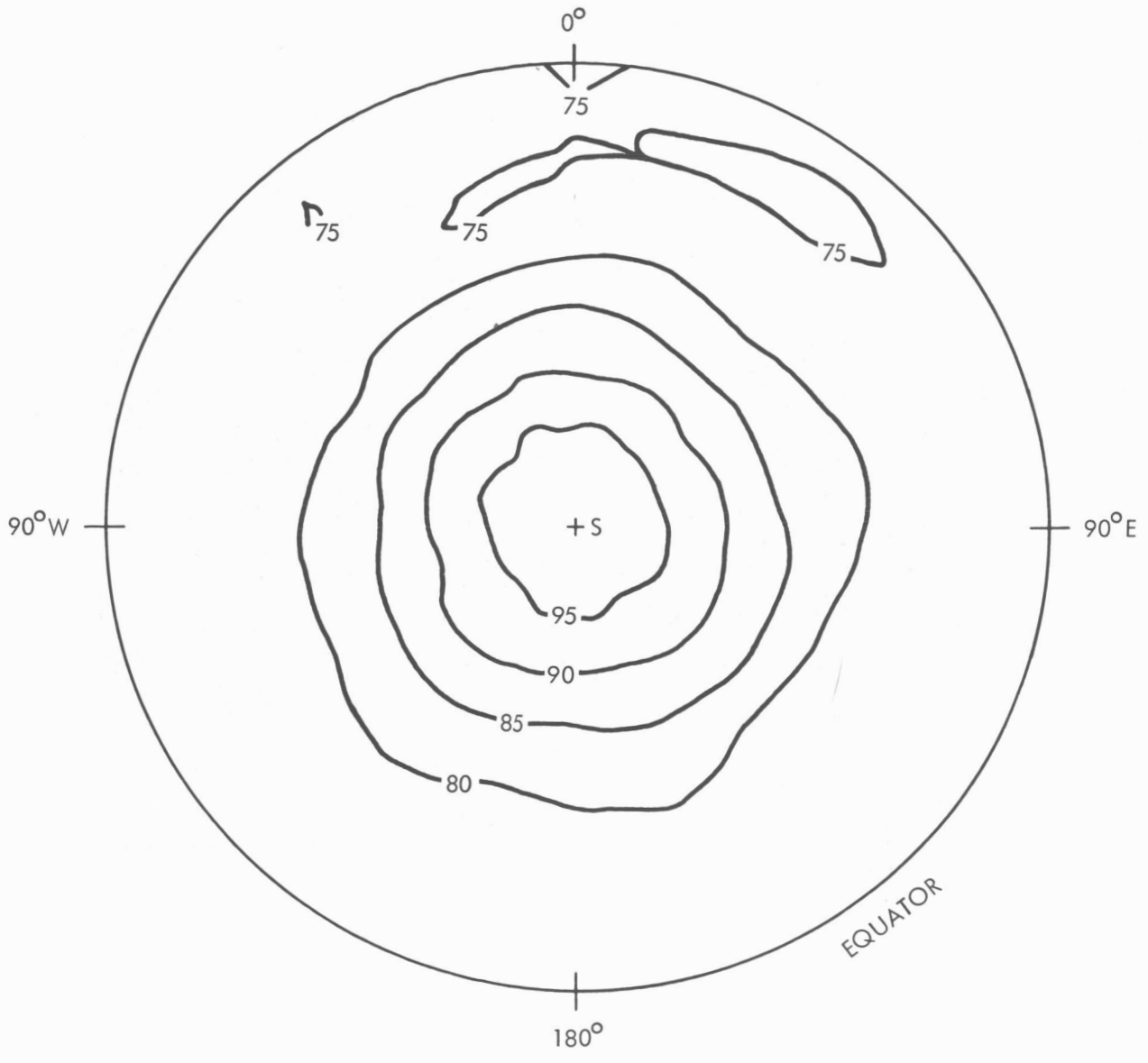



Figure 1-6 Southern Hemisphere Stereographic Map of Radiances Derived from SCR Channel B23 for 3 February 1973. The unit is mw/$m^2$ ster $cm^{-1}$. See Table 1-2 for conversion to temperatures.

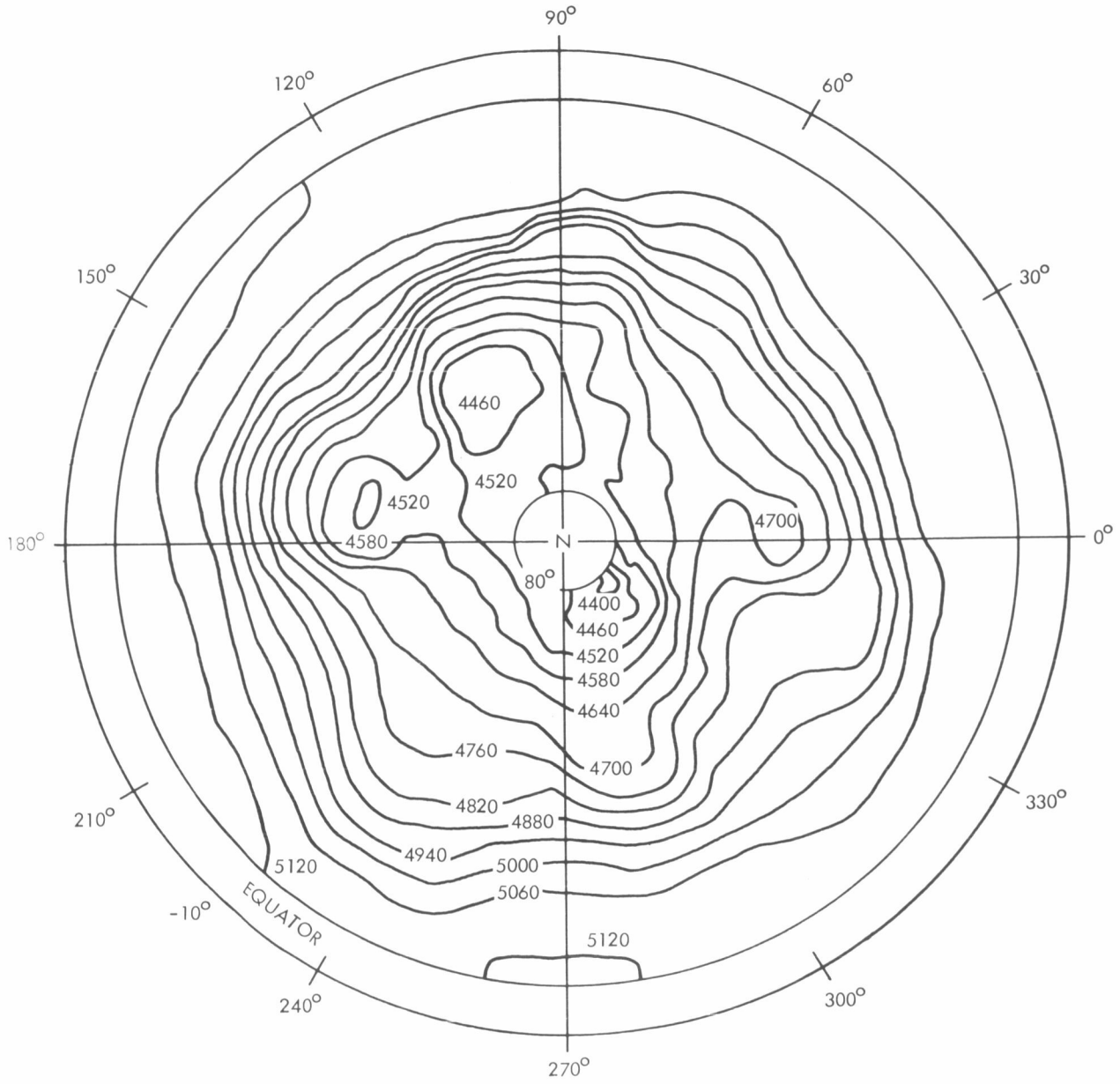



Figure 1-7 Atmospheric Layer Thickness Derived from NEMS Temperature Soundings. Represented on this northern hemisphere azimuthal equidistant polar projection map are the 500 mb to 250 mb layer thicknesses derived from NEMS soundings recorded 18 February 1973. The contours denote thickness in 60-meter increments from 4400 to 5120 meters.

## SECTION 2

## THE ORBITAL ELEMENTS AND DATA AVAILABILITY ON-OFF TIMES

The Nimbus 5 Brouwer Mean orbital elements for selected epochs during February and March 1973 are listed in Table 2-1.

Table 2-1

Nimbus 5 Brouwer Mean Orbital Elements
For February and March 1973

| Epoch | Universal Time | 05 Feb 1973 08 00 00 Z | 20 Feb 1973 00 00 00 Z | 05 Mar 1973 00 00 00 Z | 18 Mar 1973 00 00 00 Z |
|---|---|---|---|---|---|
| Semi-Major Axis | km | 7473.588 | 7473.586 | 7473.582 | 7473.579 |
| Eccentricity | | .000910 | .000917 | .000893 | .000858 |
| Inclination | Degrees | 99.951 | 99.951 | 99.949 | 99.948 |
| Argument of Perigee | Degrees | 100.140 | 66.862 | 37.868 | 7.579 |
| Right Ascension of Ascending Node | Degrees | 307.842 | 322.305 | 335.122 | 347.939 |
| Height of Perigee | km | 1088.62 | 1088.57 | 1088.74 | 1089.00 |
| Height of Apogee | km | 1102.22 | 1102.27 | 1102.09 | 1101.82 |
| Anomalistic Period | Minutes | 107.16457 | 107.16452 | 107.16444 | 107.16437 |
| Motion of Perigee | Degrees per Day | -2.4333 | -2.4333 | -2.4335 | -2.4336 |

The data availability on-off times (Table 2-2) list the times when the data from each instrument was recorded on a HDRSS.

THIR orbital coverage in Table 2-2 is divided between daytime and nighttime data. The THIR data is normally recorded simultaneously from both 6.7$\mu$m and 11.5$\mu$m channels. Therefore, the listed on-off times apply to both channels.

A THIR data orbit is defined as beginning and ending at the night-day terminator. Thus, the daytime data orbit extends from the night-day terminator to the day-night terminator. Each daytime THIR data orbit is assigned the orbit number of the ascending node which occurs during that portion of the orbit. The same orbit number is assigned also to the succeeding nighttime data orbit.

The "INT ORBIT & STDN" identify the orbit and the ground station to which the satellite data is transmitted. The letter "R" denotes Rosman, North Carolina; the letter "A" denotes Fairbanks, Alaska.

The "HDRSS" identifies the satellite tape recorder, either A or B.

The "THIR GRID CORR" columns are used to indicate an image grid error in latitude and longitude whenever either is in error by more than one degree of great circle arc (60 n. m.). Latitude errors are suffixed by an N or S; longitude errors, by an E or W. An N or S indicates the grid should be moved up or down by the amount shown to obtain a good fit of the grid to the geography. An E or W indicates the grid should be moved right or left, at the equator, by the amount shown.

Ascending node times and longitudes are the times and longitudes at which the satellite crosses the equator in the northbound direction. These crossings always occur during the daytime portion of the orbit. The descending nodes and times refer to the southbound crossings, which occur during the nighttime portion of the orbit.

ESMR, NEMS, SCR, and ITPR are normally on all the time. Their sensory information is recorded on a HDRSS between interrogations, and their on- and off-times define the total record times between interrogations. An interrogation orbit is the orbit during which previously recorded data is transmitted to a ground station. This data will be from segments of two or more data orbits. To determine the orbital coverage of the data from any interrogation, the on- and off-times should be matched with the appropriate ascending or descending node listed with the THIR information on the same page of Table 2-2. Coverage can then be determined as described below.

The "DATA ORBIT" indicator in the ESMR table is given only for reference purposes. It is the number which appears on the data display image, samples of which are reproduced in Section 3, and identifies the last data orbit on each display. It should not be confused with the THIR data orbit number.

Table 2-2 together with the World Map (Figure 2-1) and the vellum Subsatellite Tracks Overlay attached to the back of this catalog, can be used to determine approximate geographic coverages.

A Subsatellite Tracks Overlay is correctly oriented with the World Map when the ascending or descending node line on the overlay coincides with the 0-degree

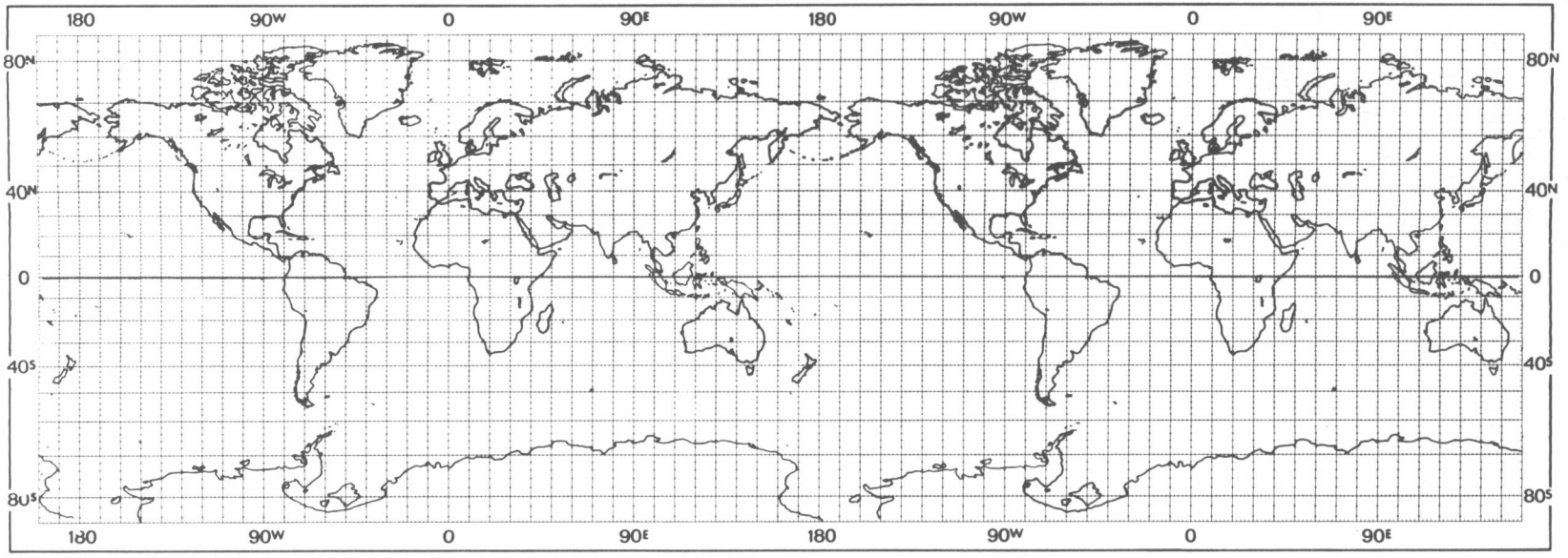



Figure 2-1 World Map

latitude (equator) line of the World Map. Orbital coverage is determined by placing an orbit track on the world map at the appropriate ascending node (for daytime) or descending node (for nighttime) longitude for the orbit of interest.

The Subsatellite Tracks Overlay contains 14 correctly spaced tracks, which end at the approximate earth day-night transitions. The tracks contain time ticks spaced 5 minutes apart, appropriately annotated at the edge of the overlay, referenced from the equator. Times in minutes from equator crossings for all or part of a particular orbit are calculated by adding or subtracting from the ascending or descending node time listed for that orbit in the Data Availability On-Off Times Table.

The nature and format of the data to be available from each experiment are explained in detail in the respective sections of The Nimbus 5 User's Guide. The appropriate sources for requesting the various data types are listed in Section 1.7 of the same manual.

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 1 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 694 | 2330 | 0019 | 696R | B | | 000106 | E172.3 | 694 | 2232 | 0032 | 696R | B |
| 695 | | | | | | 014823 | E145.4 | 696 | 0223 | 0416 | 696R | A |
| 696 | 0305 | 0354 | 696R | A | | 033539 | E118.6 | 697 | 0421 | 0601 | 697R | A |
| 697 | 0452 | 0541 | 697R | A | | 052256 | E091.8 | 698 | 0603 | 0743 | 698A | B |
| 698 | 0640 | 0728 | 698A | B | | 071012 | E065.0 | 699 | 0742 | 0927 | 699A | A |
| 699 | 0827 | 0916 | 699A | A | | 085729 | E038.1 | 700 | 0929 | 1114 | 700A | B |
| 700 | 1014 | 1103 | 700A | B | | 104446 | E011.3 | 701 | 1115 | 1259 | 701A | A |
| 701 | 1201 | 1250 | 701A | A | | 123202 | W015.5 | 702 | 1300 | 1445 | 702A | B |
| 702 | 1349 | 1437 | 702A | A | | 141919 | W042.3 | 703 | 1444 | 1627 | 703A | A |
| 703 | 1536 | 1625 | 703A | A | | 160635 | W069.1 | 704 | 1628 | 1813 | 704A | B |
| 704 | 1723 | 1810 | 704A | B | | 175352 | W096.0 | 705 | 1813 | 1959 | 705A | A |
| 705 | 1911 | 1958 | 705A | A | | 194108 | W122.8 | 706 | 1958 | 2145 | 706A | B |
| 706 | 2058 | 2144 | 706A | B | | 212825 | W149.6 | | | | | |
| 707 | | | | | | 231542 | W176.4 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 694 | 0019 | 0031 | 696R | B | | 005437 | W021.1 | 0222 | 0416 | 696R | B | |
| 695 | 0223 | 0305 | 696R | A | | 024153 | W048.0 | 0421 | 0601 | 697R | A | |
| 696 | 0354 | 0414 | 696R | A | | 042910 | W074.8 | 0600 | 0743 | 698A | B | |
| 696 | 0422 | 0452 | 697R | A | | | | 0742 | 0927 | 699A | A | |
| 697 | 0541 | 0600 | 697R | A | | 061627 | W101.6 | 0926 | 1114 | 700A | B | |
| 697 | 0600 | 0640 | 698A | B | | | | 1113 | 1259 | 701A | A | |
| 698 | 0728 | 0742 | 698A | B | | 080343 | W128.4 | 1258 | 1445 | 702A | B | |
| 698 | 0742 | 0827 | 699A | A | | | | 1444 | 1627 | 703A | A | |
| 699 | 0916 | 0926 | 699A | A | | 095100 | W155.2 | 1627 | 1813 | 704A | B | |
| 699 | 0926 | 1014 | 700A | B | | | | 1812 | 1958 | 705A | A | |
| 700 | 1103 | 1114 | 700A | B | | 113816 | E178.0 | 1957 | 2145 | 706A | B | |
| 700 | 1113 | 1201 | 701A | A | | | | 2348 | 0144 | 710R | B | |
| 701 | 1250 | 1258 | 701A | A | | 132533 | E151.1 | | | | | |
| 701 | 1258 | 1349 | 702A | A | | | | | | | | |
| 702 | 1437 | 1444 | 702A | A | | 151249 | E124.3 | | | | | |
| 702 | 1444 | 1536 | 703A | A | | | | | | | | |
| 703 | 1627 | 1723 | 704A | B | | 170006 | E097.5 | | | | | |
| 704 | 1812 | 1911 | 705A | A | | 184723 | E070.7 | | | | | |
| 705 | 1959 | 2058 | 706A | B | | 203439 | E043.9 | | | | | |
| 706 | | | | | | 222156 | E017.0 | | | | | |
| 707 | 2348 | 0032 | 710R | A | | 000912 | W009.8 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 2 FEBRUARY 1973

| THIR | | | | | | | ASC. AND DESC. NODE | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 708 | 0032 | 0121 | 710R | A | | 010258 | E156.8 | 708 | 2348 | 0145 | 710R | A |
| 709 | 0220 | 0308 | 710R | B | | 025015 | E130.0 | 709 | 0134 | 0323 | 710R | B |
| 710 | | | | | | 043732 | E103.1 | 711 | 0519 | 0702 | 711R | B |
| 711 | 0554 | 0643 | 711R | B | | 062448 | E076 3 | 712 | 0703 | 0843 | 712A | A |
| 712 | 0742 | 0830 | 712A | A | | 081204 | E049.5 | 713 | 0844 | 1030 | 713A | B |
| 713 | 0929 | 1018 | 713A | B | | 095921 | E022.7 | 714 | 1030 | 1212 | 714A | A |
| 714 | 1116 | 1205 | 714A | A | | 114638 | W004.1 | 715 | 1216 | 1400 | 715A | B |
| 715 | 1303 | 1352 | 715A | B | | 133354 | W031.0 | 716 | 1400 | 1545 | 716A | A |
| 716 | 1451 | 1539 | 716A | A | | 152111 | W057.8 | 717 | 1544 | 1730 | 717A | B |
| 717 | 1638 | 1727 | 717A | B | | 170827 | W084.6 | 718 | 1729 | 1913 | 718A | A |
| 718 | 1825 | 1912 | 718A | A | | 185544 | W111.4 | 719 | 1913 | 2101 | 719A | B |
| 719 | 2013 | 2100 | 719A | B | | 204300 | W138.2 | 720 | 2100 | 2249 | 720A | A |
| 720 | 2200 | 2248 | 720A | A | | 223017 | W165.0 | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 708 | 0121 | 0144 | 710R | A | | 015629 | W036.6 | 0134 | 0322 | 710R | A | |
| 708 | 0134 | 0220 | 710R | B | | | | 0519 | 0702 | 711R | B | |
| 709 | 0308 | 0322 | 710R | B | | 034345 | W063.4 | 0703 | 0843 | 712A | A | |
| 710 | 0519 | 0554 | 711R | B | | 053102 | W090.2 | 0842 | 1029 | 713A | B | |
| 711 | 0643 | 0701 | 711R | B | | 071818 | W117.1 | 1029 | 1212 | 714A | A | |
| 711 | 0703 | 0742 | 712A | A | | | | 1214 | 1400 | 715A | B | |
| 712 | 0830 | 0842 | 712A | A | | 090535 | W143.9 | 1400 | 1544 | 716A | A | |
| 712 | 0842 | 0929 | 713A | B | | | | 1543 | 1729 | 717A | B | |
| 713 | 1018 | 1028 | 713A | B | | 105252 | W170.7 | 1729 | 1913 | 718A | A | |
| 713 | 1029 | 1116 | 714A | A | | | | 1913 | 2101 | 719A | B | |
| 714 | 1214 | 1303 | 715A | B | | 124008 | E162.5 | 2100 | 2249 | 720A | A | |
| 715 | 1352 | 1400 | 715A | B | | 142725 | E135.7 | 2249 | 0047 | 723R | B | |
| 715 | 1400 | 1451 | 716A | A | | | | | | | | |
| 716 | 1543 | 1638 | 717A | B | | 161441 | E108.9 | | | | | |
| 717 | 1729 | 1825 | 718A | A | | 180158 | E082.0 | | | | | |
| 718 | 1914 | 2013 | 719A | B | | 194914 | E055.2 | | | | | |
| 719 | 2101 | 2200 | 720A | A | | 213631 | E028.4 | | | | | |
| 720 | 2249 | 2347 | 723R | B | | 232348 | E001.6 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 3 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 721 | 2347 | 0036 | 723R | B | | 001734 | E168.1 | 721 | 2248 | 0048 | 723R | B |
| 722 | | | | | | 020450 | E141.3 | 723 | 0237 | 0431 | 723R | A |
| 723 | 0322 | 0410 | 723R | A | | 035207 | E114.5 | 724 | 0436 | 0618 | 724R | A |
| 724 | 0509 | 0558 | 724R | A | | 053923 | E087.7 | 725 | 0618 | 0759 | 725A | B |
| 725 | 0656 | 0745 | 725A | B | | 072640 | E060.9 | 726 | 0758 | 0945 | 723A | A |
| 726 | 0844 | 0932 | 726A | A | | 091356 | E034.0 | 727 | 0945 | 1130 | 727A | B |
| 727 | 1031 | 1119 | 727A | A | | 110113 | E007.2 | 728 | 1131 | 1316 | 728A | A |
| 728 | 1218 | 1307 | 728A | A | | 124830 | W019.6 | 729 | 1316 | 1502 | 729A | B |
| 729 | 1405 | 1454 | 729A | B | | 143546 | W046.4 | 730 | 1501 | 1649 | 730A | A |
| 730 | 1553 | 1641 | 730A | A | | 162303 | W073.2 | 731 | 1650 | 1830 | 731A | B |
| 731 | 1740 | 1829 | 731A | B | | 181019 | W100.1 | 732 | 1829 | 2015 | 732A | A |
| 732 | 1927 | 2014 | 732A | A | 1N | 195736 | W126.9 | 733 | 2014 | 2201 | 733A | B |
| 733 | 2114 | 2200 | 733A | B | | 214452 | W153.7 | | | | | |
| 734 | | | | | | 233209 | E179.5 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 721 | 0036 | 0047 | 723R | B | | 011104 | W025.3 | 0237 | 0430 | 723R | A | |
| 722 | 0237 | 0322 | 723R | A | | 025821 | W052.1 | 0436 | 0618 | 724R | A | |
| 723 | 0410 | 0430 | 723R | A | | 044537 | W078.9 | 0618 | 0759 | 725A | B | |
| 723 | 0436 | 0509 | 424R | A | | | | 0757 | 0945 | 726A | A | |
| 724 | 0558 | 0617 | 724R | A | | 063254 | W105.7 | 0944 | 1130 | 727A | B | |
| 724 | 0618 | 0656 | 725A | B | | | | 1129 | 1316 | 728A | A | |
| 725 | 0745 | 0757 | 725A | B | | 082010 | W132.5 | 1315 | 1502 | 729A | B | |
| 725 | 0757 | 0844 | 726A | A | | | | 1501 | 1648 | 730A | A | |
| 726 | 0932 | 0944 | 726A | A | | 100727 | W159.3 | 1650 | 1830 | 731A | B | |
| 726 | 0944 | 1031 | 727A | A | | | | 1828 | 2015 | 732A | A | |
| 727 | 1119 | 1129 | 727A | A | | 115444 | E173.8 | 2013 | 2201 | 733A | B | |
| 727 | 1129 | 1218 | 728A | A | | | | | | | | |
| 728 | 1307 | 1315 | 728A | A | | 134200 | E147.0 | | | | | |
| 728 | 1315 | 1405 | 729A | B | | | | | | | | |
| 729 | 1454 | 1501 | 729A | B | | 152917 | E120.2 | | | | | |
| 729 | 1501 | 1553 | 730A | A | | | | | | | | |
| 730 | 1641 | 1647 | 730A | A | | 171633 | E093.4 | | | | | |
| 730 | 1645 | 1740 | 731A | B | | | | | | | | |
| 731 | 1829 | 1927 | 732A | A | 1S | 190350 | E066.6 | | | | | |
| 732 | 2016 | 2114 | 733A | B | | 205106 | E039.7 | | | | | |
| 733 | | | | | | 223823 | E012.9 | | | | | |
| 734 | 0005 | 0049 | 737R | A | | 002540 | W013.9 | | | | | |

# TABLE 2-2
## DATA AVAILABILITY ON-OFF TIMES
## 4 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 735 | 0049 | 0138 | 737R | A | | 011926 | E152.7 | 735 | 0005 | 0200 | 737R | A |
| 736 | 0236 | 0325 | 736R | B | | 030642 | E125.9 | 736 | 0152 | 0349 | 736R | B |
| 737 | 0424 | 0512 | 737R | B | | 045359 | E099.0 | 737 | 0354 | 0530 | 737R | B |
| 738 | 0611 | 0700 | 738R | B | 1N | 064115 | E072.2 | 738 | 0536 | 0720 | 738A | B |
| 739 | 0758 | 0847 | 739A | A | | 082832 | E045.4 | 739 | 0721 | 0855 | 739A | A |
| 740 | 0945 | 1034 | 740A | B | | 101548 | E018.6 | 740 | 0900 | 1046 | 740A | B |
| 741 | 1133 | 1221 | 741A | A | | 120305 | W008.3 | 741 | 1046 | 1231 | 741A | A |
| 742 | 1320 | 1409 | 742A | B | | 135022 | W035.1 | 742 | 1232 | 1419 | 742A | B |
| 743 | 1507 | 1556 | 743A | A | | 153738 | W061.9 | 743 | 1418 | 1601 | 743A | A |
| 744 | 1655 | 1743 | 744A | A | | 172455 | W088.7 | 744 | 1600 | 1747 | 744A | B |
| 745 | 1842 | 1929 | 745A | A | 1S | 191211 | W115.5 | 745 | 1746 | 1930 | 745A | A |
| 746 | 2029 | 2110 | 746A | B | | 205928 | W142.3 | 746 | 1929 | 2115 | 746A | B |
| 747 | 2216 | 2304 | 747A | A | | 224644 | W169.2 | 747 | 2116 | 2305 | 747A | A |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 735 | 0138 | 0159 | 737R | A | | 021256 | W040.7 | | 0005 | 0159 | 737R | A |
| 735 | 0152 | 0236 | 736R | B | | | | | 0152 | 0348 | 736R | B |
| 736 | 0325 | 0347 | 736R | B | | 040013 | W067.5 | | 0354 | 0531 | 737R | B |
| 736 | 0354 | 0424 | 737R | B | | | | | 0536 | 0720 | 738R | B |
| 737 | 0512 | 0531 | 737R | B | | 054729 | W094.4 | | 0721 | 0859 | 739A | A |
| 737 | 0536 | 0611 | 738R | B | 1S | | | | 0858 | 1045 | 740A | B |
| 738 | 0700 | 0720 | 738R | B | 1S | 073446 | W121.2 | | 1045 | 1231 | 741A | A |
| 738 | 0721 | 0758 | 739A | A | | | | | 1230 | 1418 | 742A | B |
| 739 | 0847 | 0858 | 739A | A | | 092202 | W148.0 | | 1417 | 1601 | 743A | A |
| 739 | 0858 | 0945 | 740A | B | | | | | 1558 | 1747 | 744A | B |
| 740 | 1034 | 1044 | 740A | B | | 110919 | W174.8 | | 1746 | 1930 | 745A | A |
| 740 | 1045 | 1133 | 741A | A | | | | | 1928 | 2114 | 746A | B |
| 741 | 1221 | 1230 | 741A | A | | 125635 | E158.4 | | 2114 | 2305 | 747A | A |
| 741 | 1230 | 1320 | 742A | B | | | | | 2305 | 0104 | 750R | B |
| 742 | 1409 | 1417 | 742A | B | | 144352 | E131.6 | | | | | |
| 742 | 1418 | 1507 | 743A | A | | | | | | | | |
| 743 | 1558 | 1655 | 744A | A | | 163109 | E104.7 | | | | | |
| 744 | 1746 | 1842 | 745A | A | 1N | 181825 | E077.9 | | | | | |
| 745 | 1931 | 2029 | 746A | B | | 200542 | E051.1 | | | | | |
| 746 | 2118 | 2216 | 747A | A | | 215258 | E024.3 | | | | | |
| 747 | 2305 | 0004 | 750R | B | | 234015 | W002.5 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 5 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 748 | 0004 | 0052 | 750R | B | | 003401 | E164.0 | 748 | 2306 | 0105 | 750R | B |
| 749 | | | | | | 022118 | E137.2 | 750 | 0253 | 0448 | 750R | A |
| 750 | 0338 | 0427 | 750R | A | | 040834 | E110.4 | 751 | 0453 | 0636 | 751R | A |
| 751 | 0526 | 0614 | 751R | A | | 055551 | E083.6 | 752 | 0635 | 0816 | 752A | B |
| 752 | 0713 | 0802 | 752A | B | | 074307 | E056.7 | 753 | 0815 | 1000 | 753A | A |
| 753 | 0900 | 0949 | 753A | A | | 093024 | E029.9 | 754 | 1002 | 1146 | 754A | B |
| 754 | 1047 | 1136 | 754A | B | | 111740 | E003.1 | 755 | 1147 | 1334 | 755A | A |
| 755 | 1235 | 1323 | 755A | A | | 130457 | W023.7 | 756 | 1332 | 1517 | 756A | B |
| 756 | 1422 | 1511 | 756A | B | 1S | 145214 | W050.5 | 757 | 1517 | 1701 | 757A | A |
| 757 | 1609 | 1658 | 757A | A | | 163930 | W077.4 | 758 | 1700 | 1848 | 758A | B |
| 758 | 1757 | 1845 | 758A | B | | 182647 | W104.2 | 759 | 1845 | 2033 | 759A | A |
| 759 | 1944 | 2032 | 759A | A | | 201403 | W131.0 | 760 | 2030 | 2218 | 760A | B |
| 760 | 2131 | 2217 | 760A | B | | 220120 | W157.8 | | | | | |
| 761 | | | | | | 234836 | E175.4 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 748 | 0052 | 0102 | 750R | B | | 012732 | W029.4 | | 0253 | 0447 | 750R | A |
| 749 | 0252 | 0338 | 750R | A | | 031448 | W056.2 | | 0453 | 0635 | 751R | A |
| 750 | 0427 | 0446 | 750R | A | | 050205 | W083.0 | | 0635 | 0815 | 752A | B |
| 750 | 0453 | 0526 | 751R | A | | | | | 0814 | 1000 | 753A | A |
| 751 | 0614 | 0635 | 751R | A | | 064921 | W109.8 | | 0958 | 1146 | 754A | B |
| 751 | 0635 | 0713 | 752A | B | | | | | 1145 | 1334 | 755A | A |
| 752 | 0802 | 0814 | 752A | B | | 083638 | W136.6 | | 1331 | 1517 | 756A | B |
| 752 | 0814 | 0900 | 753A | A | | | | | 1517 | 1701 | 757A | A |
| 753 | 0949 | 0959 | 753A | A | | 102354 | W163.5 | | 1658 | 1847 | 758A | B |
| 753 | 0958 | 1047 | 754A | B | | | | | 1843 | 2033 | 759A | A |
| 754 | 1136 | 1145 | 754A | B | | 121111 | E169.7 | | 2030 | 2218 | 760A | B |
| 754 | 1145 | 1235 | 755A | A | | | | | | | | |
| 755 | 1323 | 1332 | 755A | A | | 135827 | E142.9 | | | | | |
| 755 | 1331 | 1422 | 756A | B | 1N | | | | | | | |
| 756 | 1511 | 1516 | 756A | B | 1N | 154544 | E116.1 | | | | | |
| 756 | 1516 | 1609 | 757A | A | | | | | | | | |
| 757 | 1658 | 1757 | 758A | B | | 173301 | E089.3 | | | | | |
| 758 | 1845 | 1944 | 759A | A | | 192017 | E062.5 | | | | | |
| 759 | 2033 | 2131 | 760A | B | | 210734 | E035.6 | | | | | |
| 760 | | | | | | 225450 | E008.8 | | | | | |
| 761 | 0022 | 0106 | 764R | A | | 004207 | W018.0 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 6 FEBRUARY 1973

| THIR | | | | | | | ASC. AND | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | | DESC. NODE | | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| | DAYTIME THIR | | | | | | ASC. NODE | | | | | | |
| 762 | 0106 | 0154 | 764R | A | | | 013553 | E148.6 | 762 | 0022 | 0215 | 764R | A |
| 763 | 0253 | 0342 | 763R | B | | | 032310 | E121.7 | 763 | 0207 | 0404 | 763R | B |
| 764 | 0440 | 0529 | 764R | B | | | 051026 | E094.9 | 764 | 0409 | 0547 | 764R | B |
| 765 | 0628 | 0716 | 765A | B | | | 065743 | E068.1 | 765 | 0553 | 0730 | 765A | B |
| 766 | 0815 | 0904 | 766A | B | | | 084459 | E041.3 | 766 | 0731 | 0919 | 766A | A |
| 767 | 1002 | 1051 | 767A | B | | | 103216 | E014.5 | 767 | 0916 | 1101 | 767A | B |
| 768 | 1149 | 1238 | 768A | A | | | 121932 | W012.4 | 768 | 1103 | 1249 | 768A | A |
| 769 | 1337 | 1425 | 769A | B | | | 140649 | W039.2 | 769 | 1248 | 1433 | 769A | B |
| 770 | 1524 | 1613 | 770A | A | | | 155405 | W066.0 | 770 | 1432 | 1619 | 770A | A |
| 771 | 1711 | 1800 | 771A | B | | | 174122 | W092.8 | 771 | 1616 | 1802 | 771A | B |
| 772 | 1859 | 1946 | 772A | A | | | 192839 | W119.6 | 772 | 1801 | 1947 | 772A | A |
| 773 | 2046 | 2127 | 773A | B | | | 211555 | W146.5 | 773 | 1947 | 2131 | 773A | B |
| 774 | 2233 | 2322 | 777R | A | | | 230312 | W173.3 | 774 | 2135 | 2334 | 777R | A |
| | NIGHTTIME THIR | | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 762 | 0154 | 0206 | 764R | A | | | 022923 | W044.8 | | 0022 | 0214 | 764R | B |
| 762 | 0206 | 0253 | 763R | B | | | | | | 0206 | 0403 | 763R | B |
| 763 | 0342 | 0403 | 763R | B | | | 041640 | W071.7 | | 0409 | 0548 | 764R | A |
| 763 | 0409 | 0440 | 764R | B | | | | | | 0553 | 0730 | 765A | B |
| 764 | 0529 | 0547 | 764R | B | | | 060357 | W098.5 | | 0730 | 0919 | 766A | A |
| 764 | 0553 | 0628 | 765A | B | | | | | | 0914 | 1101 | 767A | B |
| 765 | 0716 | 0729 | 765A | B | | | 075113 | W125.3 | | 1101 | 1250 | 768A | A |
| 765 | 0739 | 0815 | 766A | B | | | | | | 1247 | 1432 | 769A | B |
| 766 | 0904 | 0916 | 766A | B | | | 093830 | W152.1 | | 1431 | 1618 | 770A | A |
| 766 | 0915 | 1002 | 767A | B | | | | | | 1616 | 1802 | 771A | B |
| 767 | 1051 | 1059 | 767A | B | | | 112546 | W178.9 | | 1801 | 1947 | 772A | A |
| 767 | 1101 | 1149 | 768A | A | | | | | | 1947 | 2131 | 773A | B |
| 768 | 1238 | 1249 | 768A | A | | | 131303 | E154.3 | | 2135 | 2333 | 777R | A |
| 768 | 1247 | 1337 | 769A | B | | | | | | | | | |
| 769 | 1425 | 1432 | 769A | B | | | 150019 | E127.4 | | | | | |
| 769 | 1432 | 1524 | 770A | A | | | | | | | | | |
| 770 | 1616 | 1711 | 771A | B | | | 164736 | E100.6 | | | | | |
| 771 | 1801 | 1859 | 772A | A | | | 183452 | E073.8 | | | | | |
| 772 | 1947 | 2046 | 773A | B | | | 202209 | E047.0 | | | | | |
| 773 | 2135 | 2233 | 777R | A | | | 220926 | E020.2 | | | | | |
| 774 | 2322 | 2333 | 777R | A | | | 235642 | W006.7 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 7 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 775 | | | | | | 005028 | E159.9 | 777 | 0309 | 0502 | 777R | B |
| 776 | | | | | | 023745 | E133.1 | 778 | 0508 | 0652 | 778R | B |
| 777 | 0355 | 0444 | 777R | B | | 042501 | E106.3 | 779 | 0651 | 0831 | 779A | A |
| 778 | 0542 | 0631 | 778R | B | | 061218 | E079.5 | 780 | 0831 | 1016 | 780A | B |
| 779 | 0729 | 0818 | 779A | A | | 075935 | E052.6 | 781 | 1018 | 1203 | 781A | A |
| 780 | 0917 | 1005 | 780A | B | | 094651 | E025.8 | 782 | 1203 | 1349 | 782A | B |
| 781 | 1104 | 1153 | 781A | A | | 113408 | W001.0 | 783 | 1348 | 1536 | 783A | A |
| 782 | 1251 | 1340 | 782A | B | | 132124 | W027.8 | 784 | 1534 | 1719 | 784A | B |
| 783 | 1439 | 1527 | 783A | A | | 150841 | W054.7 | 785 | 1717 | 1902 | 785A | A |
| 784 | 1626 | 1715 | 784A | B | | 165557 | W081.5 | 786 | 1901 | 2047 | 786A | B |
| 785 | 1813 | 1901 | 785A | A | | 184314 | W108.3 | 787 | 2047 | 2231 | 787A | A |
| 786 | 2000 | 2047 | 786A | B | | 203031 | W135.1 | | | | | |
| 787 | 2148 | 2232 | 787A | A | | 221747 | W161.9 | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 775 | | | | | | 014359 | W033.5 | 0309 | 0502 | 777R | B | |
| 776 | 0310 | 0355 | 777R | B | | 033115 | W060.3 | 0508 | 0651 | 778R | B | |
| 777 | 0444 | 0502 | 777R | B | | 051832 | W087.1 | 0651 | 0831 | 779A | A | |
| 777 | 0508 | 0542 | 778R | B | | | | 0830 | 1016 | 780A | B | |
| 778 | 0631 | 0650 | 778R | B | | 070548 | W113.9 | 1016 | 1203 | 781A | A | |
| 778 | 0651 | 0729 | 779A | A | | | | 1202 | 1349 | 782A | B | |
| 779 | 0818 | 0830 | 779A | A | | 085305 | W140.8 | 1348 | 1536 | 783A | A | |
| 779 | 0830 | 0917 | 780A | B | | | | 1534 | 1719 | 784A | B | |
| 780 | 1005 | 1015 | 780A | B | | 104022 | W167.6 | 1717 | 1902 | 785A | A | |
| 780 | 1016 | 1104 | 781A | A | | | | 1900 | 2047 | 786A | B | |
| 781 | 1153 | 1202 | 781A | A | | 122738 | E165.6 | 2046 | 2231 | 787A | A | |
| 781 | 1202 | 1251 | 782A | B | | | | | | | | |
| 782 | 1340 | 1348 | 782A | B | | 141455 | E138.8 | | | | | |
| 782 | 1348 | 1439 | 783A | A | | | | | | | | |
| 783 | 1527 | 1535 | 783A | A | | 160211 | E112.0 | | | | | |
| 783 | 1534 | 1626 | 784A | B | | | | | | | | |
| 784 | 1717 | 1813 | 785A | A | | 174928 | E085.2 | | | | | |
| 785 | 1902 | 2000 | 786A | B | | 193644 | E058.3 | | | | | |
| 786 | 2049 | 2148 | 787A | A | | 212401 | E031.5 | | | | | |
| 787 | | | | | | 231118 | E004.7 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 8 FEBRUARY 1973

THIR

| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO |
|---|---|---|---|---|---|
| **DAYTIME THIR** | | | | | |
| 788 | | | | | |
| 789 | 0122 | 0211 | 790R | B | |
| 790 | 0310 | 0358 | 790R | A | |
| 791 | 0457 | 0546 | 791R | A | |
| 792 | 0644 | 0733 | 792A | A | |
| 793 | 0831 | 0920 | 793A | B | |
| 794 | 1019 | 1107 | 794A | A | |
| 795 | 1206 | 1255 | 795A | B | |
| 796 | 1353 | 1442 | 796A | A | |
| 797 | 1541 | 1629 | 797A | B | |
| 798 | 1728 | 1817 | 798A | A | |
| 799 | 1915 | 2002 | 799A | B | |
| 800 | 2102 | 2148 | 800A | A | |
| 801 | | | | | |
| **NIGHTTIME THIR** | | | | | |
| 788 | 0039 | 0122 | 790R | B | |
| 789 | 0211 | 0230 | 790R | B | |
| 789 | 0232 | 0310 | 790R | A | |
| 790 | 0358 | 0422 | 790R | A | |
| 790 | 0429 | 0457 | 791R | A | |
| 791 | 0546 | 0602 | 791R | A | |
| 791 | 0613 | 0644 | 792A | A | |
| 792 | 0733 | 0746 | 792A | A | |
| 792 | 0747 | 0831 | 793A | B | |
| 793 | 0920 | 0932 | 793A | B | |
| 793 | 0932 | 1019 | 794A | A | |
| 794 | 1107 | 1117 | 794A | A | |
| 794 | 1117 | 1206 | 795A | B | |
| 795 | 1255 | 1303 | 795A | B | |
| 795 | 1303 | 1353 | 796A | A | |
| 796 | 1442 | 1448 | 796A | A | |
| 796 | 1448 | 1541 | 797A | B | |
| 797 | 1629 | 1634 | 797A | B | |
| 797 | 1634 | 1728 | 798A | A | |
| 798 | 1817 | 1915 | 799A | B | |
| 799 | 2004 | 2102 | 800A | A | |
| 800 | | | | | |
| 801 | 0006 | 0037 | 804R | A | 1S |

| DATA ORBIT | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG |
|---|---|---|
| **ASC. NODE** | | |
| | 000504 | E171.3 |
| | 015220 | E144.4 |
| | 033937 | E117.6 |
| | 052653 | E090.8 |
| | 071410 | E064.0 |
| | 090127 | E037.2 |
| | 104843 | E010.3 |
| | 123600 | W016.5 |
| | 142316 | W043.3 |
| | 161033 | W070.1 |
| | 175749 | W096.9 |
| | 194506 | W123.8 |
| | 213222 | W150.6 |
| | 231939 | W177.4 |
| **DESC. NODE** | | |
| | 005834 | W022.1 |
| | 024551 | W048.9 |
| | 043307 | W075.8 |
| | 062024 | W102.6 |
| | 080740 | W129.4 |
| | 095457 | W156.2 |
| | 114214 | E177.0 |
| | 132930 | E150.2 |
| | 151647 | E123.3 |
| | 170403 | E096.5 |
| | 185120 | E069.7 |
| | 203836 | E042.9 |
| | 222553 | E016.1 |
| | 001309 | W010.8 |

ESMR

| DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
|---|---|---|---|---|
| 789 | 0038 | 0231 | 790R | B |
| 790 | 0232 | 0423 | 790R | A |
| 791 | 0429 | 0604 | 791R | A |
| 792 | 0613 | 0747 | 792A | B |
| 793 | 0747 | 0933 | 793A | A |
| 794 | 0933 | 1119 | 794A | B |
| 795 | 1119 | 1305 | 795A | A |
| 796 | 1304 | 1450 | 796A | B |
| 797 | 1448 | 1635 | 797A | A |
| 798 | 1634 | 1818 | 798A | B |
| 799 | 1817 | 2003 | 799A | A |
| 800 | 2002 | 2149 | 800A | B |

NEMS - SCR - ITPR

| ON HRMN | OFF HRMN | | |
|---|---|---|---|
| 0038 | 0230 | 791R | B |
| 0232 | 0423 | 790R | A |
| 0429 | 0603 | 791R | A |
| 0613 | 0747 | 792A | B |
| 0747 | 0933 | 793A | A |
| 0932 | 1118 | 794A | B |
| 1117 | 1304 | 795A | A |
| 1303 | 1449 | 796A | B |
| 1448 | 1635 | 797A | A |
| 1634 | 1818 | 798A | B |
| 1817 | 2003 | 799A | A |
| 2000 | 2149 | 800A | B |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 9 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | ASC. AND DESC. NODE | | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 802 | 0037 | 0126 | 804R | A | 1N | 010656 | E155.8 | 802 | 0006 | 0149 | 804R | A |
| 803 | 0224 | 0313 | 804R | B | | 025412 | E129.0 | 803 | 0148 | 0326 | 804R | B |
| 804 | | | | | | 044129 | E102.2 | 805 | 0524 | 0708 | 805R | B |
| 805 | 0559 | 0648 | 805R | B | | 062845 | E075.3 | 806 | 0708 | 0847 | 806A | A |
| 806 | 0746 | 0835 | 806A | B | | 081602 | E048.5 | 807 | 0847 | 1034 | 807A | B |
| 807 | 0933 | 1022 | 807A | B | | 100318 | E021.7 | 808 | 1034 | 1220 | 808A | A |
| 808 | 1121 | 1209 | 808A | A | | 115035 | W005.1 | 809 | 1220 | 1354 | 809A | B |
| 809 | 1308 | 1357 | 809A | B | | 133752 | W031.9 | 810 | 1405 | 1551 | 810A | A |
| 810 | 1455 | 1544 | 810A | A | | 152508 | W058.8 | 811 | 1549 | 1734 | 811A | B |
| 811 | 1643 | 1731 | 811A | B | | 171225 | W085.6 | 812 | 1733 | 1918 | 812A | A |
| 812 | 1830 | 1917 | 812A | A | | 185941 | W112.4 | 813 | 1917 | 2102 | 813A | B |
| 813 | 2017 | 2100 | 813A | B | | 204658 | W139.2 | 814 | 2103 | 2252 | 814A | A |
| 813 | 2101 | 2106 | 814A | A | 1S | | | | | | | |
| 814 | 2204 | 2250 | 814A | A | 1S | 223414 | W166.0 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 802 | 0126 | 0148 | 804R | A | 1S | 020026 | W037.6 | | 0006 | 0148 | 804R | A |
| 802 | 0148 | 0224 | 804R | B | | | | | 0149 | 0326 | 804R | B |
| 803 | 0313 | 0326 | 804R | B | | 034743 | W064.4 | | 0524 | 0708 | 805R | B |
| 804 | 0525 | 0559 | 805R | B | | 053459 | W091.2 | | 0708 | 0847 | 806A | A |
| 805 | 0648 | 0707 | 805R | B | | 072216 | W118.0 | | 0846 | 1034 | 807A | B |
| 805 | 0708 | 0746 | 806A | B | | | | | 1033 | 1220 | 808A | A |
| 806 | 0835 | 0846 | 806A | B | | 090932 | W144.9 | | 1220 | 1407 | 809A | B |
| 806 | 0846 | 0933 | 807A | B | | | | | 1405 | 1551 | 810A | A |
| 807 | 1022 | 1033 | 807A | B | | 105649 | W171.7 | | 1549 | 1734 | 811A | B |
| 807 | 1033 | 1121 | 808A | A | | | | | 1733 | 1918 | 812A | A |
| 808 | 1209 | 1220 | 808A | A | | 124405 | E161.5 | | 1915 | 2101 | 813A | B |
| 808 | 1220 | 1308 | 809A | B | | | | | 2101 | 2252 | 814A | A |
| 809 | 1357 | 1406 | 809A | B | | 143122 | E134.7 | | | | | |
| 809 | 1405 | 1455 | 810A | A | | | | | | | | |
| 810 | 1544 | 1550 | 810A | A | | 161839 | E107.9 | | | | | |
| 810 | 1549 | 1643 | 811A | B | | | | | | | | |
| 811 | 1733 | 1830 | 812A | A | | 180555 | E081.1 | | | | | |
| 812 | 1919 | 2017 | 813A | B | | 195312 | E054.2 | | | | | |
| 813 | 2106 | 2204 | 814A | A | 1N | 214028 | E027.4 | | | | | |
| 814 | | | | | | 232745 | E000.6 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 10 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | ASC. AND DESC. NODE | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 815 | | | | | | 002131 | E167.2 | 815 | 0053 | 0144 | 817R | A |
| 816 | 0139 | 0228 | 817R | A | | 020848 | E140.3 | 816 | 0156 | 0245 | 817R | A |
| 817 | 0326 | 0415 | 817R | B | | 035604 | E113.5 | 817 | 0240 | 0432 | 817R | B |
| 818 | 0514 | 0602 | 818R | B | | 054321 | E086.7 | 818 | 0440 | 0624 | 818R | B |
| 819 | 0701 | 0750 | 819A | A | | 073037 | E059.9 | 819 | 0622 | 0804 | 819A | A |
| 820 | 0848 | 0937 | 820A | B | 1E | 091754 | E033.1 | 820 | 0803 | 0950 | 820A | B |
| 821 | 1035 | 1124 | 821A | A | | 110510 | E006.2 | 821 | 0949 | 1136 | 821A | A |
| 822 | 1223 | 1311 | 822A | B | | 125227 | W020.6 | 822 | 1135 | 1321 | 822A | B |
| 823 | 1410 | 1459 | 823A | A | | 143944 | W047.4 | 823 | 1320 | 1507 | 823A | A |
| 824 | 1557 | 1646 | 824A | B | | 162700 | W074.2 | 824 | 1506 | 1650 | 824A | B |
| 825 | 1744 | 1831 | 825A | B | 1E | 181417 | W101.0 | 825 | 1649 | 1833 | 825A | A |
| 826 | 1932 | 2017 | 826A | A | | 200133 | W127.9 | 826 | 1831 | 2018 | 826A | B |
| 827 | 2119 | 2205 | 827A | A | | 214850 | W154.7 | 827 | 2018 | 2206 | 827A | A |
| 828 | 2306 | 2355 | 831R | B | | 233606 | E178.5 | 828 | 2206 | 0006 | 831R | B |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 815 | 0053 | 0139 | 817R | A | | 011501 | W026.2 | 0053 | 0245 | 817R | A | |
| 816 | 0228 | 0245 | 817R | A | | 030218 | W053.0 | 0241 | 0431 | 817R | B | |
| 816 | 0241 | 0326 | 817R | B | | | | 0440 | 0622 | 818R | B | |
| 817 | 0415 | 0433 | 817R | B | | 044935 | W079.9 | 0622 | 0803 | 819A | A | |
| 817 | 0440 | 0514 | 818R | B | | | | 0803 | 0950 | 820A | B | |
| 818 | 0602 | 0622 | 818R | B | | 063651 | W106.7 | 0949 | 1136 | 821A | A | |
| 818 | 0623 | 0701 | 819A | A | | | | 1135 | 1321 | 822A | B | |
| 819 | 0750 | 0801 | 819A | A | | 082408 | W133.5 | 1320 | 1507 | 823A | A | |
| 819 | 0803 | 0848 | 820A | B | 1W | | | 1506 | 1650 | 824A | B | |
| 820 | 0937 | 0948 | 820A | B | 1W | 101124 | W160.3 | 1649 | 1833 | 825A | A | |
| 820 | 0948 | 1035 | 821A | A | | | | 1831 | 2019 | 826A | B | |
| 821 | 1124 | 1135 | 821A | A | | 115841 | E172.9 | 2018 | 2206 | 827A | A | |
| 821 | 1135 | 1223 | 822A | B | | | | 2206 | 0006 | 831R | A | |
| 822 | 1311 | 1320 | 822A | B | | 134557 | E146.0 | | | | | |
| 822 | 1320 | 1410 | 823A | A | | | | | | | | |
| 823 | 1459 | 1506 | 823A | A | | 153314 | E119.2 | | | | | |
| 823 | 1506 | 1557 | 824A | B | | | | | | | | |
| 824 | 1649 | 1744 | 825A | B | 1W | 172030 | E092.4 | | | | | |
| 825 | 1833 | 1932 | 826A | A | | 190747 | E065.6 | | | | | |
| 826 | 2020 | 2119 | 827A | A | | 205504 | E038.8 | | | | | |
| 827 | 2208 | 2306 | 831R | B | | 224220 | E011.9 | | | | | |
| 828 | 2355 | 0006 | 831R | B | | 002937 | W014.9 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 11 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 829 | | | | | | 012323 | E151.7 | 830 | 0154 | 0357 | 830R | A |
| 830 | 0241 | 0330 | 830R | A | | 031039 | E124.9 | 831 | 0358 | 0537 | 831R | A |
| 831 | 0428 | 0517 | 831R | A | 1N | 045756 | E098.1 | 832 | 0542 | 0726 | 833A | A |
| 832 | 0615 | 0704 | 833A | A | | 064513 | E071.2 | 834 | 0904 | 1050 | 834A | B |
| 833 | | | | | | 083229 | E044.4 | 835 | 1050 | 1237 | 835A | A |
| 834 | 0950 | 1039 | 834A | B | | 101946 | E017.6 | 836 | 1235 | 1421 | 836A | B |
| 835 | 1137 | 1226 | 835A | A | | 120702 | W009.2 | 837 | 1420 | 1605 | 837A | A |
| 836 | 1325 | 1413 | 836A | B | | 135419 | W036.1 | 838 | 1620 | 1749 | 838A | B |
| 837 | 1512 | 1601 | 837A | A | | 154135 | W062.9 | 839 | 1748 | 1934 | 839A | A |
| 838 | 1659 | 1748 | 838A | B | | 172852 | W089.7 | 840 | 1933 | 2119 | 840A | B |
| 839 | 1846 | 1933 | 839A | A | | 191609 | W116.5 | 841 | 2120 | 2307 | 841A | A |
| 840 | 2034 | 2119 | 840A | B | | 210325 | W143.3 | | | | | |
| 841 | 2221 | 2306 | 841A | A | | 225042 | W170.1 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 829 | 0155 | 0241 | 830R | A | | 021653 | W041.7 | | 0155 | 0353 | 830R | A |
| 830 | 0330 | 0352 | 830R | A | | 040410 | W068.5 | | 0358 | 0536 | 831R | B |
| 830 | 0359 | 0428 | 831R | A | 1S | | | | 0542 | 0726 | 833A | A |
| 831 | 0517 | 0536 | 831R | A | 1S | 055126 | W095.3 | | 0903 | 1051 | 834A | B |
| 831 | 0542 | 0615 | 833A | A | | | | | 1050 | 1236 | 835A | A |
| 832 | 0704 | 0725 | 833A | A | | 073843 | W122.2 | | 1235 | 1421 | 836A | B |
| 833 | 0903 | 0950 | 834A | B | | 092600 | W149.0 | | 1420 | 1605 | 837A | A |
| 834 | 1039 | 1050 | 834A | B | | 111316 | W175.8 | | 1604 | 1749 | 838A | B |
| 834 | 1051 | 1137 | 835A | A | | | | | 1747 | 1934 | 839A | A |
| 835 | 1226 | 1235 | 835A | A | | 130033 | E157.4 | | 1933 | 2120 | 840A | B |
| 835 | 1235 | 1325 | 836A | B | | | | | 2119 | 2307 | 841A | A |
| 836 | 1413 | 1420 | 836A | B | | 144749 | E130.6 | | | | | |
| 836 | 1420 | 1512 | 837A | A | | | | | | | | |
| 837 | 1604 | 1659 | 838A | B | | 163506 | E103.8 | | | | | |
| 838 | 1748 | 1846 | 839A | A | | 182223 | E076.9 | | | | | |
| 839 | 1935 | 2034 | 840A | B | | 200939 | E050.1 | | | | | |
| 840 | 2122 | 2221 | 841A | A | | 215656 | E023.3 | | | | | |
| 841 | | | | | | 234412 | W003.5 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 12 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | ASC. AND DESC. NODE | | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 842 | | | | | | 003758 | E163.0 | 843 | 0135 | 0300 | 844R | A |
| 843 | 0156 | 0244 | 844R | A | | 022515 | E136.2 | 844 | 0256 | 0453 | 844R | B |
| 844 | 0343 | 0432 | 844R | B | | 041231 | E109.4 | 845 | 0458 | 0639 | 845R | B |
| 845 | 0530 | 0619 | 845R | B | 1S | 055948 | E082.6 | 846 | 0639 | 0821 | 846A | A |
| 846 | 0717 | 0806 | 846A | B | | 074705 | E055.8 | 847 | 0819 | 1002 | 847A | B |
| 847 | 0905 | 0953 | 847A | B | | 093421 | E028.9 | 848 | 1005 | 1150 | 848A | A |
| 848 | 1052 | 1141 | 848A | A | | 112138 | E002.1 | 849 | 1151 | 1338 | 849A | B |
| 849 | 1239 | 1328 | 849A | B | | 130854 | W024.7 | 850 | 1338 | 1522 | 850A | A |
| 850 | 1427 | 1515 | 850A | A | | 145611 | W051.5 | 851 | 1520 | 1703 | 851A | B |
| 851 | 1614 | 1702 | 851A | B | | 164327 | W078.3 | 852 | 1704 | 1849 | 852A | A |
| 852 | 1801 | 1847 | 852A | A | | 183044 | W105.2 | 853 | 1849 | 2037 | 853A | B |
| 853 | 1948 | 2036 | 853A | B | | 201800 | W132.0 | 854 | 2034 | 2223 | 854A | A |
| 854 | 2136 | 2223 | 854A | A | | 220517 | W158.8 | 855 | 2223 | 0023 | 858R | B |
| 855 | 2323 | 0012 | 858R | B | | 235234 | E174.4 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 842 | 0131 | 0156 | 844R | A | | 013129 | W030.3 | | 0135 | 0300 | 844R | A |
| 843 | 0244 | 0300 | 844R | A | | 031845 | W057.2 | | 0257 | 0453 | 844R | B |
| 843 | 0257 | 0343 | 844R | B | | | | | 0458 | 0639 | 845R | B |
| 844 | 0432 | 0452 | 844R | B | | 050602 | W084.0 | | 0639 | 0819 | 846A | A |
| 844 | 0458 | 0530 | 845R | B | 1N | | | | 0816 | 1004 | 847A | B |
| 845 | 0619 | 0638 | 845R | B | 1N | 065318 | W110.8 | | 1003 | 1150 | 848A | A |
| 845 | 0639 | 0717 | 846A | B | | | | | 1149 | 1338 | 849A | B |
| 846 | 0806 | 0815 | 846A | B | | 084035 | W137.6 | | 1338 | 1522 | 850A | A |
| 846 | 0819 | 0905 | 847A | B | | | | | 1520 | 1703 | 851A | B |
| 847 | 0953 | 1002 | 847A | B | | 102751 | W164.4 | | 1702 | 1848 | 852A | A |
| 847 | 1003 | 1052 | 848A | A | | | | | 1846 | 2037 | 853A | B |
| 848 | 1141 | 1150 | 848A | A | | 121508 | E168.7 | | 2033 | 2223 | 854A | A |
| 848 | 1149 | 1239 | 849A | B | | | | | 2223 | 0023 | 858R | B |
| 849 | 1328 | 1337 | 849A | B | | 140225 | E141.9 | | | | | |
| 849 | 1338 | 1427 | 850A | A | | | | | | | | |
| 850 | 1515 | 1521 | 850A | A | | 154941 | E115.1 | | | | | |
| 850 | 1520 | 1614 | 851A | B | | | | | | | | |
| 851 | 1703 | 1801 | 852A | A | | 173658 | E088.3 | | | | | |
| 852 | 1850 | 1948 | 853A | B | | 192414 | E061.5 | | | | | |
| 853 | 2037 | 2136 | 854A | A | | 211131 | E034.7 | | | | | |
| 854 | 2224 | 2323 | 858R | B | | 225847 | E007.8 | | | | | |
| 855 | 0012 | 0022 | 858R | B | | 004604 | W019.0 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 13 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 856 | | | | | | 013950 | E147.6 | 857 | 0213 | 0413 | 858R | A |
| 857 | 0258 | 0346 | 858R | A | | 032707 | E120.8 | 858 | | | | |
| 858 | | | | | | 051423 | E093.9 | 859 | 0600 | 0733 | 859A | A |
| 859 | 0632 | 0721 | 859A | A | | 070140 | E067.1 | 860 | 0733 | 0920 | 860A | B |
| 860 | 0819 | 0908 | 860A | B | | 084856 | E040.3 | 861 | 0920 | 1106 | 861A | A |
| 861 | 1007 | 1055 | 861A | A | | 103613 | E013.5 | 862 | 1106 | 1252 | 862A | B |
| 862 | 1154 | 1243 | 862A | B | | 122330 | W013.4 | 863 | 1252 | 1439 | 863A | A |
| 863 | 1341 | 1430 | 863A | A | | 141046 | W040.2 | 864 | 1436 | 1620 | 864A | B |
| 864 | 1529 | 1617 | 864A | B | | 155803 | W067.0 | 865 | 1620 | 1806 | 865A | A |
| 865 | 1716 | 1805 | 865A | A | | 174519 | W093.8 | 866 | 1804 | 1928 | 866A | B |
| 866 | 1903 | 1950 | 866A | B | | 193236 | W120.6 | 867 | 1949 | 2134 | 867A | A |
| 866 | 1947 | 1952 | 867A | A | 1S | | | | | | | |
| 867 | 2050 | 2133 | 867A | A | 1S | 211952 | W147.4 | | | | | |
| 868 | | | | | | 230709 | W174.3 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 856 | 0213 | 0258 | 858R | A | | 023321 | W045.8 | | 0213 | 0414 | 858R | A |
| 857 | 0346 | 0414 | 858R | A | | 042037 | W072.6 | | 0600 | 0733 | 859A | A |
| 858 | 0619 | 0632 | 859A | A | | 060754 | W099.4 | | 0733 | 0920 | 860A | B |
| 859 | 0721 | 0732 | 859A | A | | 075510 | W126.3 | | 0919 | 1106 | 861A | A |
| 859 | 0733 | 0819 | 860A | B | | | | | 1105 | 1252 | 862A | B |
| 860 | 0908 | 0919 | 860A | B | | 094227 | W153.1 | | 1251 | 1438 | 863A | A |
| 860 | 0919 | 1007 | 861A | A | | | | | 1435 | 1620 | 864A | B |
| 861 | 1055 | 1105 | 861A | A | | 112943 | W179.9 | | 1619 | 1806 | 865A | A |
| 861 | 1105 | 1154 | 862A | B | | | | | 1804 | 1951 | 866A | B |
| 862 | 1243 | 1251 | 862A | B | | 131700 | E153.3 | | 1947 | 2134 | 867A | A |
| 862 | 1252 | 1341 | 863A | A | | | | | | | | |
| 863 | 1430 | 1438 | 863A | A | | 150417 | E126.5 | | | | | |
| 863 | 1435 | 1529 | 864A | B | | | | | | | | |
| 864 | 1620 | 1716 | 865A | A | | 165133 | E099.7 | | | | | |
| 865 | 1805 | 1903 | 866A | B | | 183850 | E072.8 | | | | | |
| 866 | 1952 | 2050 | 867A | A | 1N | 202606 | E046.0 | | | | | |
| 867 | | | | | | 221323 | E019.2 | | | | | |
| 868 | | | | | | 000039 | W007.6 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 14 FEBRUARY 1973

THIR

| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG |
|---|---|---|---|---|---|---|---|
| **DAYTIME THIR** | | | | | | **ASC. NODE** | |
| 869 | | | | | | 005425 | E158.9 |
| 870 | 0212 | 0301 | 871R | A | | 024142 | E132.1 |
| 871 | 0359 | 0448 | 871R | B | | 042859 | E105.3 |
| 872 | 0547 | 0636 | 872R | B | 1E | 061615 | E078.5 |
| 873 | 0734 | 0823 | 873A | A | | 080332 | E051.7 |
| 874 | 0921 | 1010 | 874A | A | | 095048 | E024.8 |
| 875 | 1109 | 1157 | 875A | A | | 113805 | W002.0 |
| 876 | 1256 | 1345 | 876A | B | | 132522 | W028.8 |
| 877 | 1443 | 1532 | 877A | A | | 151238 | W055.6 |
| 878 | 1630 | 1718 | 878A | B | | 165955 | W082.5 |
| 879 | 1818 | 1905 | 879A | A | | 184711 | W109.3 |
| 880 | 2005 | 2051 | 880A | B | | 203428 | W136.1 |
| 881 | 2152 | 2239 | 881A | A | | 222144 | W162.9 |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | |
| 869 | 0126 | 0212 | 871R | A | | 014756 | W034.5 |
| 870 | 0301 | 0315 | 871R | A | | 033513 | W061.3 |
| 870 | 0314 | 0359 | 871R | B | | | |
| 871 | 0448 | 0505 | 871R | B | | 052229 | W088.1 |
| 871 | 0511 | 0547 | 872R | B | 1W | | |
| 872 | 0636 | 0653 | 872R | B | 1W | 070946 | W114.9 |
| 872 | 0654 | 0734 | 873A | A | | | |
| 873 | 0823 | 0835 | 873A | A | | 085702 | W141.7 |
| 873 | 0835 | 0921 | 874A | A | | | |
| 874 | 1010 | 1020 | 874A | A | | 104419 | W168.6 |
| 874 | 1020 | 1109 | 875A | A | | | |
| 875 | 1157 | 1206 | 875A | A | | 123135 | E164.6 |
| 875 | 1206 | 1256 | 876A | B | | | |
| 876 | 1345 | 1352 | 876A | B | | 141852 | E137.8 |
| 876 | 1351 | 1443 | 877A | A | | | |
| 877 | 1537 | 1630 | 878A | B | | 160608 | E111.0 |
| 878 | 1719 | 1818 | 879A | A | | 175325 | E084.2 |
| 879 | 1906 | 2005 | 880A | B | | 194042 | E057.4 |
| 880 | 2054 | 2152 | 881A | A | | 212758 | E030.5 |
| 881 | 2241 | 2340 | 884R | B | 2W | 231515 | E003.7 |

ESMR

| DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
|---|---|---|---|---|
| 870 | 0126 | 0315 | 871R | A |
| 871 | 0313 | 0506 | 871R | B |
| 872 | 0511 | 0654 | 872R | B |
| 873 | 0654 | 0836 | 873A | A |
| 874 | 0835 | 1020 | 874A | B |
| 875 | 1022 | 1208 | 875A | A |
| 876 | 1207 | 1353 | 876A | B |
| 877 | 1352 | 1538 | 877A | A |
| 878 | 1537 | 1719 | 878A | B |
| 879 | 1720 | 1905 | 879A | A |
| 880 | 1905 | 2052 | 880A | B |
| 881 | 2051 | 2240 | 881A | A |

NEMS - SCR - ITPR

| | | | |
|---|---|---|---|
| 0126 | 0315 | 871R | A |
| 0313 | 0506 | 871R | B |
| 0511 | 0654 | 872R | B |
| 0654 | 0836 | 873A | A |
| 0835 | 1021 | 874A | B |
| 1020 | 1207 | 875A | A |
| 1206 | 1353 | 876A | B |
| 1351 | 1538 | 877A | A |
| 1537 | 1719 | 878A | B |
| 1718 | 1905 | 879A | A |
| 1904 | 2052 | 880A | B |
| 2051 | 2240 | 881A | A |
| 2241 | 0039 | 884R | B |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 15 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 882 | 2340 | 0028 | 884R | B | 2E | 000901 | E170.3 | 882 | 2240 | 0040 | 884R | B |
| 883 | | | | | | 015617 | E143.5 | 884 | 0228 | 0424 | 884R | A |
| 884 | 0314 | 0403 | 884R | A | | 034334 | E116.7 | 885 | 0429 | 0610 | 885R | A |
| 885 | 0501 | 0550 | 885R | A | | 053050 | E089.8 | 886 | 0608 | 0751 | 886A | B |
| 886 | 0649 | 0737 | 886A | B | | 071807 | E063.0 | 887 | 0750 | 0937 | 887A | A |
| 887 | 0836 | 0925 | 887A | A | | 090524 | E036.2 | 888 | 0937 | 1123 | 888A | B |
| 888 | 1023 | 1112 | 888A | B | | 105240 | E009.4 | 889 | 1123 | 1309 | 889A | A |
| 889 | 1211 | 1259 | 889A | A | | 123957 | W017.5 | 890 | 1308 | 1454 | 890A | B |
| 890 | 1358 | 1447 | 890A | B | | 142713 | W044.3 | 891 | 1452 | 1636 | 891A | A |
| 891 | 1545 | 1634 | 891A | A | | 161430 | W071.1 | 892 | 1636 | 1821 | 892A | B |
| 892 | 1732 | 1820 | 892A | B | | 180146 | W097.9 | 893 | 1820 | 2005 | 893A | A |
| 893 | 1920 | 2006 | 893A | A | | 194903 | W124.7 | 894 | 2006 | 2153 | 894A | B |
| 894 | 2107 | 2152 | 894A | B | | 213620 | W151.6 | | | | | |
| 895 | | | | | | 232336 | W178.4 | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 882 | 0028 | 0039 | 884R | B | 2W | 010231 | W023.1 | 0228 | 0423 | 884R | A | |
| 883 | 0228 | 0314 | 884R | A | | 024948 | W049.9 | 0429 | 0611 | 885R | A | |
| 884 | 0403 | 0420 | 884R | A | | 043704 | W076.7 | 0609 | 0751 | 886A | B | |
| 884 | 0429 | 0501 | 885R | A | | | | 0750 | 0937 | 887A | A | |
| 885 | 0550 | 0610 | 885R | A | | 062421 | W103.6 | 0934 | 1123 | 888A | B | |
| 885 | 0609 | 0649 | 886A | B | | | | 1121 | 1309 | 889A | A | |
| 886 | 0737 | 0750 | 886A | B | | 081138 | W130.4 | 1307 | 1454 | 890A | B | |
| 886 | 0751 | 0836 | 887A | A | | | | 1451 | 1636 | 891A | A | |
| 887 | 0925 | 0936 | 887A | A | | 095854 | W157.2 | 1635 | 1821 | 892A | B | |
| 887 | 0934 | 1023 | 888A | B | | | | 1820 | 2006 | 893A | A | |
| 888 | 1112 | 1122 | 888A | B | | 114611 | E176.0 | 2005 | 2153 | 894A | B | |
| 888 | 1121 | 1211 | 889A | A | | | | | | | | |
| 889 | 1259 | 1307 | 889A | A | | 133327 | E149.2 | | | | | |
| 889 | 1306 | 1358 | 890A | B | | | | | | | | |
| 890 | 1451 | 1545 | 891A | A | | 152044 | E122.4 | | | | | |
| 891 | 1635 | 1732 | 892A | B | | 170800 | E095.5 | | | | | |
| 892 | 1821 | 1920 | 893A | A | | 185517 | E068.7 | | | | | |
| 893 | 2008 | 2107 | 894A | B | | 204233 | E041.9 | | | | | |
| 894 | | | | | | 222950 | E015.1 | | | | | |
| 895 | | | | | | 001707 | W011.8 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 16 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 896 | | | | | | 011053 | E154.8 | 897 | 0141 | 0330 | 898R | B |
| 897 | 0229 | 0318 | 898R | B | | 025809 | E128.0 | 898 | 0329 | 0522 | 898R | A |
| 898 | 0416 | 0505 | 898R | A | | 044526 | E101.2 | 899 | 0528 | 0711 | 899R | A |
| 899 | 0603 | 0652 | 899R | A | | 063242 | E074.4 | 900 | 0712 | 0852 | 900A | B |
| 900 | 0751 | 0839 | 900A | B | | 081959 | E047.5 | 901 | 0851 | 1038 | 901A | A |
| 901 | 0938 | 1027 | 901A | A | | 100716 | E020.7 | 902 | 1038 | 1224 | 902A | B |
| 902 | 1125 | 1214 | 902A | B | | 115432 | W006.1 | 903 | 1226 | 1410 | 903A | A |
| 903 | 1313 | 1401 | 903A | A | | 134149 | W032.9 | 904 | 1409 | 1554 | 904A | B |
| 904 | 1500 | 1549 | 904A | B | | 152905 | W059.7 | 905 | 1553 | 1738 | 905A | A |
| 905 | 1647 | 1736 | 905A | B | | 171622 | W086.5 | 906 | 1738 | 1922 | 906A | B |
| 906 | 1834 | 1920 | 906A | B | 1S | 190338 | W113.4 | 907 | 1921 | 2106 | 907A | A |
| 907 | 2022 | 2104 | 907A | B | | 205055 | W140.2 | 908 | 2107 | 2221 | 908A | B |
| 908 | 2209 | 2255 | 908A | B | | 223811 | W167.0 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 896 | 0141 | 0229 | 898R | B | | 020423 | W038.6 | | 0142 | 0330 | 898R | B |
| 897 | 0318 | 0330 | 898R | B | | 035140 | W065.4 | | 0329 | 0523 | 898R | A |
| 897 | 0329 | 0416 | 898R | A | | | | | 0528 | 0711 | 899R | A |
| 898 | 0505 | 0522 | 898R | A | | 053856 | W092.2 | | 0712 | 0852 | 900A | B |
| 898 | 0528 | 0603 | 899R | A | | | | | 0851 | 1038 | 901A | A |
| 899 | 0652 | 0711 | 899R | A | | 072613 | W119.0 | | 1036 | 1224 | 902A | B |
| 899 | 0712 | 0751 | 900A | B | | | | | 1223 | 1410 | 903A | A |
| 900 | 0839 | 0851 | 900A | B | | 091330 | W145.8 | | 1409 | 1554 | 904A | B |
| 900 | 0851 | 0938 | 901A | A | | | | | 1553 | 1739 | 905A | A |
| 901 | 1027 | 1037 | 901A | A | | 110046 | W172.7 | | 1738 | 1922 | 906A | B |
| 901 | 1036 | 1125 | 902A | B | | | | | 1920 | 2107 | 907A | A |
| 902 | 1214 | 1223 | 902A | B | | 124803 | E160.5 | | 2106 | 2222 | 908A | B |
| 902 | 1224 | 1313 | 903A | A | | | | | 2257 | 0055 | 911R | A |
| 903 | 1401 | 1409 | 903A | A | | 143519 | E133.7 | | | | | |
| 903 | 1409 | 1500 | 904A | B | | | | | | | | |
| 904 | 1553 | 1647 | 905A | B | | 162236 | E106.9 | | | | | |
| 905 | 1738 | 1834 | 906A | B | 1N | 180952 | E080.1 | | | | | |
| 906 | 1923 | 2022 | 907A | B | | 195709 | E053.3 | | | | | |
| 907 | 2110 | 2209 | 908A | B | | 214425 | E026.5 | | | | | |
| 908 | 2258 | 2356 | 911R | A | | 233142 | W000.4 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 17 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D R | THIR GRID CORR | ASC. AND DESC. NODE TIME | LONG | | | | INT ORBIT | H D R |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | S | LALO | HRMNSS | DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 909 | 2356 | 0045 | 911R | A | | 002528 | E166.2 | 909 | 2253 | 0055 | 911R | A |
| 910 | | | | | | 021245 | E139.4 | 911 | 0245 | 0439 | 911R | B |
| 911 | 0331 | 0420 | 911R | B | | 040001 | E112.5 | 912 | 0444 | 0626 | 912R | B |
| 912 | 0518 | 0607 | 912R | B | | 054718 | E085.7 | 913 | 0626 | 0806 | 913A | A |
| 913 | 0705 | 0754 | 913A | A | | 073434 | E058.9 | 914 | 0906 | 0954 | 914A | B |
| 914 | 0853 | 0941 | 914A | B | 1E | 092151 | E032.1 | 915 | 0953 | 1140 | 915A | A |
| 915 | 1040 | 1129 | 915A | A | | 110907 | E005.3 | 916 | 1139 | 1322 | 916A | B |
| 916 | 1227 | 1316 | 916A | B | | 125624 | W021.5 | 917 | 1324 | 1508 | 917A | A |
| 917 | 1415 | 1503 | 917A | A | | 144341 | W048.4 | 918 | 1508 | 1652 | 918A | B |
| 918 | 1602 | 1651 | 918A | B | | 163057 | W075.2 | 919 | 1652 | 1835 | 919A | A |
| 919 | 1749 | 1834 | 919A | A | 1S | 181814 | W102.0 | 920 | 1836 | 2021 | 920A | B |
| 920 | 1936 | 2020 | 920A | B | 1S | 200530 | W128.9 | 921 | 2022 | 2209 | 921A | A |
| 921 | 2124 | 2208 | 921A | A | | 215247 | W155.7 | | | | | |
| 922 | | | | | | 234003 | E177.6 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 909 | 0045 | 0055 | 911R | A | | 011859 | W027.2 | | 0245 | 0439 | 911R | B |
| 910 | 0245 | 0331 | 911R | B | | 030615 | W054.0 | | 0444 | 0626 | 912R | B |
| 911 | 0420 | 0438 | 911R | B | | 045332 | W080.8 | | 0626 | 0806 | 913A | A |
| 911 | 0444 | 0518 | 912R | B | | | | | 0806 | 0954 | 914A | B |
| 912 | 0607 | 0626 | 912R | B | | 064048 | W107.6 | | 0951 | 1140 | 915A | A |
| 912 | 0626 | 0705 | 913A | A | | | | | 1137 | 1323 | 916A | B |
| 913 | 0754 | 0806 | 913A | A | | 082805 | W134.5 | | 1322 | 1508 | 917A | A |
| 913 | 0806 | 0853 | 914A | B | 1W | | | | 1506 | 1652 | 918A | B |
| 914 | 0941 | 0951 | 914A | B | 1W | 101521 | W161.3 | | 1652 | 1835 | 919A | A |
| 914 | 0957 | 1040 | 915A | A | | | | | 1836 | 2021 | 920A | B |
| 915 | 1129 | 1139 | 915A | A | | 120238 | E171.9 | | 2020 | 2209 | 921A | A |
| 915 | 1137 | 1227 | 916A | B | | | | | | | | |
| 916 | 1316 | 1322 | 916A | B | | 134955 | E145.1 | | | | | |
| 916 | 1322 | 1415 | 917A | A | | | | | | | | |
| 917 | 1506 | 1602 | 918A | B | | 153711 | E118.3 | | | | | |
| 918 | 1652 | 1749 | 919A | A | 1N | 172428 | E091.4 | | | | | |
| 919 | 1838 | 1936 | 920A | B | 1N | 191144 | E064.6 | | | | | |
| 920 | 2025 | 2124 | 921A | A | | 205901 | E037.8 | | | | | |
| 921 | | | | | | 224617 | E011.0 | | | | | |
| 922 | 0011 | 0058 | 925R | B | | 003334 | W015.9 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 18 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 923 | 0058 | 0147 | 925R | B | | 012720 | E150.7 | 923 | 0011 | 0206 | 925R | B |
| 924 | 0246 | 0334 | 924R | A | | 031436 | E123.9 | 924 | 0158 | 0355 | 924R | A |
| 925 | 0433 | 0522 | 925R | A | | 050153 | E097.1 | 925 | 0400 | 0539 | 925R | A |
| 926 | 0620 | 0709 | 926A | A | 1E | 064910 | E070.3 | 926 | 0545 | 0721 | 926A | A |
| 927 | 0807 | 0856 | 927A | B | | 083626 | E043.5 | 927 | 0721 | 0910 | 927A | B |
| 928 | 0955 | 1043 | 928A | A | | 102343 | E016.6 | 928 | 0908 | 1054 | 928A | A |
| 929 | 1142 | 1231 | 929A | B | | 121059 | W010.2 | 929 | 1054 | 1240 | 929A | B |
| 930 | 1329 | 1418 | 930A | A | | 135816 | W037.0 | 930 | 1239 | 1425 | 930A | A |
| 931 | 1517 | 1605 | 931A | B | | 154532 | W063.8 | 931 | 1424 | 1608 | 931A | B |
| 932 | 1704 | 1753 | 932A | A | | 173249 | W090.7 | 932 | 1608 | 1754 | 932A | A |
| 933 | 1851 | 1935 | 933A | B | | 192006 | W117.5 | 933 | 1752 | 1935 | 933A | B |
| 934 | 2038 | 2123 | 934A | A | | 210722 | W144.3 | 934 | 1937 | 2123 | 934A | A |
| 935 | 2226 | 2310 | 935A | B | | 225439 | W171.1 | 935 | 2123 | 2311 | 935A | B |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 923 | 0147 | 0206 | 925R | B | | 022050 | W042.7 | 0011 | 0206 | 925R | A | |
| 923 | 0159 | 0246 | 924R | A | | | | 0159 | 0355 | 924R | A | |
| 924 | 0334 | 0354 | 924R | A | | 040807 | W069.5 | 0401 | 0539 | 925R | B | |
| 924 | 0401 | 0433 | 925R | A | | | | 0545 | 0721 | 926A | A | |
| 925 | 0522 | 0539 | 925R | A | | 055524 | W096.3 | 0721 | 0910 | 927A | B | |
| 925 | 0545 | 0620 | 926A | A | 1W | | | 0906 | 1054 | 928A | A | |
| 926 | 0709 | 0721 | 926A | A | 1W | 074240 | W123.1 | 1052 | 1240 | 929A | B | |
| 926 | 0721 | 0807 | 927A | B | | | | 1238 | 1425 | 930A | A | |
| 927 | 0856 | 0909 | 927A | B | | 092957 | W150.0 | 1422 | 1608 | 931A | B | |
| 927 | 0906 | 0955 | 928A | A | | | | 1607 | 1754 | 932A | A | |
| 928 | 1043 | 1053 | 928A | A | | 111713 | W176.8 | 1755 | 1935 | 933A | B | |
| 928 | 1052 | 1142 | 929A | B | | | | 1935 | 2124 | 934A | A | |
| 929 | 1231 | 1238 | 929A | B | | 130430 | E156.4 | 2123 | 2311 | 935A | B | |
| 929 | 1238 | 1329 | 930A | A | | | | 2316 | 0112 | 938R | A | |
| 930 | 1418 | 1424 | 930A | A | | 145146 | E129.6 | | | | | |
| 930 | 1423 | 1517 | 931A | B | | | | | | | | |
| 931 | 1606 | 1704 | 932A | A | | 163903 | E102.8 | | | | | |
| 932 | 1753 | 1851 | 933A | B | | 182620 | E076.0 | | | | | |
| 933 | 1940 | 2038 | 934A | A | | 201336 | E049.2 | | | | | |
| 934 | 2127 | 2226 | 935A | B | | 220053 | E022.3 | | | | | |
| 935 | 2316 | 0013 | 938R | A | | 234809 | W004.5 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 19 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 936 | 0013 | 0102 | 938R | A | | 004155 | E162.1 | 936 | 2316 | 0112 | 938R | A |
| 937 | | | | | | 022912 | E135.2 | 938 | 0300 | 0454 | 938R | B |
| 938 | 0348 | 0436 | 938R | B | | 041628 | E108.4 | 939 | 0500 | 0643 | 939R | B |
| 939 | 0535 | 0624 | 939R | B | | 060345 | E081.6 | 940 | 0642 | 0823 | 940A | A |
| 940 | 0722 | 0811 | 940A | A | | 075101 | E054.8 | 941 | 0822 | 1010 | 941A | B |
| 941 | 0909 | 0958 | 941A | B | | 093818 | E028.0 | 942 | 1009 | 1155 | 942A | A |
| 942 | 1057 | 1145 | 942A | A | | 112535 | E001.2 | 943 | 1155 | 1340 | 943A | B |
| 943 | 1244 | 1333 | 943A | B | | 131251 | W025.7 | 944 | 1340 | 1524 | 944A | A |
| 944 | 1431 | 1520 | 944A | A | | 150008 | W052.5 | 945 | 1524 | 1709 | 945A | B |
| 945 | 1619 | 1707 | 945A | B | | 164724 | W079.3 | 946 | 1708 | 1851 | 946A | A |
| 946 | 1806 | 1851 | 946A | A | | 183441 | W106.1 | 947 | 1852 | 2037 | 947A | B |
| 947 | 1953 | 2036 | 947A | A | | 202157 | W132.9 | 948 | 2038 | 2225 | 948A | A |
| 948 | 2140 | 2224 | 948A | B | | 220914 | W159.8 | | | | | |
| 949 | | | | | | 235631 | E173.4 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 936 | 0102 | 0112 | 938R | A | | 013526 | W031.3 | | 0301 | 0454 | 938R | B |
| 937 | 0300 | 0348 | 938R | B | | 032242 | W058.1 | | 0500 | 0643 | 939R | B |
| 938 | 0436 | 0454 | 938R | B | | 050959 | W084.9 | | 0642 | 0823 | 940A | A |
| 938 | 0500 | 0535 | 939R | B | | | | | 0822 | 1009 | 941A | B |
| 939 | 0624 | 0643 | 939R | B | | 065716 | W111.8 | | 1007 | 1155 | 942A | A |
| 939 | 0642 | 0722 | 640A | A | | | | | 1153 | 1340 | 943A | B |
| 940 | 0811 | 0823 | 940A | A | | 084432 | W138.6 | | 1339 | 1524 | 944A | A |
| 940 | 0822 | 0909 | 941A | B | | | | | 1523 | 1709 | 945A | B |
| 941 | 0958 | 1009 | 941A | B | | 103149 | W165.4 | | 1707 | 1851 | 946A | A |
| 941 | 1007 | 1057 | 942A | A | | | | | 1850 | 2037 | 947A | B |
| 942 | 1145 | 1154 | 942A | A | | 121905 | E167.8 | | 2036 | 2225 | 948A | A |
| 942 | 1153 | 1244 | 943A | B | | | | | | | | |
| 943 | 1333 | 1339 | 943A | B | | 140622 | E141.0 | | | | | |
| 943 | 1339 | 1431 | 944A | A | | | | | | | | |
| 944 | 1523 | 1619 | 945A | B | | 155338 | E114.1 | | | | | |
| 945 | 1707 | 1806 | 946A | A | | 174055 | E087.3 | | | | | |
| 946 | 1917 | 1953 | 947A | A | | 192812 | E060.5 | | | | | |
| 947 | 2042 | 2140 | 948A | B | | 211528 | E033.7 | | | | | |
| 948 | | | | | | 230245 | E006.9 | | | | | |
| 949 | 0033 | 0115 | 952R | B | | 005001 | W020.0 | | | | | |

# TABLE 2-2
## DATA AVAILABILITY ON-OFF TIMES
## 20 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 950 | 0115 | 0204 | 952R | B | | 014347 | E146.6 | 950 | 0034 | 0222 | 952R | B |
| 951 | 0302 | 0351 | 951R | A | | 033104 | E119.8 | 951 | 0215 | 0411 | 951R | A |
| 952 | 0450 | 0538 | 952R | A | | 051820 | E093.0 | 952 | 0417 | 0600 | 952R | A |
| 953 | 0637 | 0726 | 953A | A | 1W | 070537 | E066.2 | 953 | 0608 | 0738 | 953A | A |
| 954 | 0824 | 0913 | 954A | B | | 085253 | E039.3 | 954 | 0738 | 0926 | 954A | B |
| 955 | 1011 | 1100 | 955A | A | | 104010 | E012.5 | 955 | 0924 | 1109 | 955A | A |
| 956 | 1159 | 1247 | 956A | B | | 122726 | W014.3 | 956 | 1110 | 1255 | 956A | B |
| 957 | 1346 | 1435 | 957A | A | | 141443 | W041.1 | 957 | 1255 | 1443 | 957A | A |
| 958 | 1533 | 1622 | 958A | B | | 160200 | W067.9 | 958 | 1443 | 1623 | 958A | B |
| 959 | 1720 | 1808 | 959A | A | 1E | 174916 | W094.8 | 959 | 1624 | 1809 | 959A | A |
| 960 | 1908 | 1952 | 960A | B | | 193633 | W121.6 | 960 | 1809 | 1953 | 960A | B |
| 961 | 2055 | 2139 | 961A | A | | 212349 | W148.4 | 961 | 1953 | 2140 | 961A | A |
| 962 | 2242 | 2331 | 965R | A | | 231106 | W175.2 | 962 | 2146 | 2346 | 965R | B |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 950 | 0204 | 0221 | 952R | B | | 023718 | W046.8 | | 0035 | 0222 | 952R | B |
| 950 | 0216 | 0302 | 951R | A | | | | | 0216 | 0411 | 951R | A |
| 951 | 0351 | 0411 | 951R | A | | 042434 | W073.6 | | 0417 | 0600 | 952R | A |
| 951 | 0417 | 0450 | 952R | A | | | | | 0605 | 0738 | 953A | A |
| 952 | 0538 | 0559 | 952R | A | | 061151 | W100.4 | | 0738 | 0926 | 954A | B |
| 952 | 0605 | 0637 | 953A | A | 1E | | | | 0924 | 1109 | 955A | A |
| 953 | 0726 | 0736 | 953A | A | 1E | 075907 | W127.2 | | 1108 | 1255 | 956A | B |
| 953 | 0738 | 0824 | 954A | B | | | | | 1255 | 1443 | 957A | A |
| 954 | 0913 | 0925 | 954A | B | | 094624 | W154.1 | | 1443 | 1623 | 958A | B |
| 954 | 0924 | 1011 | 955A | A | | | | | 1622 | 1809 | 959A | A |
| 955 | 1100 | 1108 | 955A | A | | 113341 | E179.2 | | 1809 | 1953 | 960A | B |
| 955 | 1108 | 1159 | 956A | B | | | | | 1952 | 2141 | 961A | A |
| 956 | 1247 | 1255 | 956A | B | | 132057 | E152.3 | | 2146 | 2349 | 965R | B |
| 956 | 1256 | 1346 | 957A | A | | | | | | | | |
| 957 | 1435 | 1442 | 957A | A | | 150814 | E125.5 | | | | | |
| 957 | 1443 | 1533 | 958A | B | | | | | | | | |
| 958 | 1622 | 1720 | 959A | A | 1W | 165530 | E098.7 | | | | | |
| 959 | 1809 | 1908 | 960A | B | | 184247 | E071.9 | | | | | |
| 960 | 1957 | 2055 | 961A | A | | 203003 | E045.1 | | | | | |
| 961 | 2147 | 2242 | 965R | A | | 221720 | E018.2 | | | | | |
| 962 | 2331 | 2348 | 965R | A | | 000437 | W008.6 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 21 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 963 | | | | | | 005822 | E158.0 | 965 | 0317 | 0510 | 965R | A |
| 964 | | | | | | 024539 | E131.1 | 966 | 0516 | 0658 | 966R | B |
| 965 | 0404 | 0453 | 965R | B | | 043256 | E104.3 | 967 | 0703 | 0840 | 967A | B |
| 966 | 0551 | 0640 | 966R | B | | 062012 | E077.5 | 968 | 0844 | 1023 | 968A | B |
| 967 | 0739 | 0828 | 967A | B | | 080729 | E050.7 | 969 | 1029 | 1212 | 969A | B |
| 968 | 0926 | 1015 | 968A | B | | 095445 | E023.9 | 970 | 1216 | 1356 | 970A | B |
| 969 | 1113 | 1202 | 969A | B | | 114202 | W003.0 | 971 | 1401 | 1540 | 971A | B |
| 970 | 1301 | 1349 | 970A | B | | 132918 | W029.8 | 972 | 1546 | 1725 | 972A | B |
| 971 | 1448 | 1537 | 971A | B | | 151635 | W056.6 | 973 | 1729 | 1908 | 973A | B |
| 972 | 1635 | 1724 | 972A | B | | 170351 | W083.4 | 974 | 1913 | 2057 | 974A | B |
| 973 | 1822 | 1907 | 973A | B | | 185108 | W110.2 | 975 | 2202 | 2241 | 975A | B |
| 974 | 2010 | 2056 | 974A | B | | 203825 | W137.0 | | | | | |
| 975 | 2157 | 2239 | 975A | B | | 222541 | W163.9 | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 963 | | | | | | 015153 | W035.4 | 0317 | 0510 | 965R | A | |
| 964 | 0318 | 0404 | 965R | B | | 033910 | W062.2 | 0515 | 0658 | 966R | B | |
| 965 | 0453 | 0459 | 965R | B | | 052626 | W089.1 | 0703 | 0839 | 967A | B | |
| 965 | 0515 | 0551 | 966R | B | | | | 0844 | 1024 | 968A | B | |
| 966 | 0640 | 0657 | 966R | B | | 071343 | W115.9 | 1029 | 1211 | 969A | B | |
| 966 | 0703 | 0739 | 967A | B | | | | 1216 | 1356 | 970A | B | |
| 967 | 0828 | 0838 | 967A | B | | 090059 | W142.7 | 1401 | 1540 | 971A | B | |
| 967 | 0844 | 0926 | 968A | B | | | | 1546 | 1725 | 972A | B | |
| 968 | 1015 | 1023 | 968A | B | | 104816 | W169.5 | 1729 | 1908 | 973A | B | |
| 968 | 1029 | 1113 | 969A | B | | | | 1913 | 2057 | 974A | B | |
| 969 | 1202 | 1211 | 969A | B | | 123533 | E163.7 | 2102 | 2241 | 975A | B | |
| 969 | 1216 | 1301 | 970A | B | | | | | | | | |
| 970 | 1349 | 1355 | 970A | B | | 142249 | E136.8 | | | | | |
| 970 | 1401 | 1448 | 971A | B | | | | | | | | |
| 971 | 1546 | 1635 | 972A | B | | 161006 | E110.0 | | | | | |
| 972 | 1729 | 1822 | 973A | B | | 175722 | E083.2 | | | | | |
| 973 | 1913 | 2010 | 974A | B | | 194439 | E056.4 | | | | | |
| 974 | 2102 | 2157 | 975A | B | | 213155 | E029.6 | | | | | |
| 975 | | | | | | 231912 | E002.8 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 22 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 976 | | | | | | 001258 | E169.3 | 977 | 0045 | 0237 | 979R | A |
| 977 | 0132 | 0220 | 979R | A | | 020014 | E142.5 | 978 | 0236 | 0435 | 979R | B |
| 978 | 0319 | 0408 | 979R | B | | 034731 | E115.7 | 979 | | | | |
| 979 | | | | | | 053447 | E088.9 | 980 | 0620 | 0753 | 980A | B |
| 980 | 0653 | 0742 | 980A | B | | 072204 | E062.0 | 981 | 0759 | 0941 | 981A | B |
| 981 | 0841 | 0929 | 981A | B | | 090920 | E035.2 | 982 | 0947 | 1124 | 982A | B |
| 982 | 1028 | 1117 | 982A | B | | 105637 | E008.4 | 983 | 1131 | 1311 | 983A | B |
| 983 | 1215 | 1304 | 983A | B | | 124354 | W018.4 | 984 | 1317 | 1456 | 984A | B |
| 984 | 1403 | 1451 | 984A | B | | 143110 | W045.2 | 985 | 1500 | 1639 | 985A | B |
| 985 | 1550 | 1639 | 985A | B | | 161827 | W072.1 | 986 | 1645 | 1826 | 986A | B |
| 986 | 1737 | 1824 | 986A | B | | 180543 | W098.9 | 987 | 1830 | 2009 | 987A | B |
| 987 | 1924 | 2008 | 987A | B | | 195300 | W125.7 | 988 | 2014 | 2158 | 988A | B |
| 988 | 2112 | 2157 | 988A | B | | 214016 | W152.5 | 989 | 2159 | 2358 | 994A | A |
| 989 | 2259 | 2348 | 994A | A | | 232733 | W179.3 | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 976 | 0045 | 0132 | 979R | A | | 010628 | W024.1 | 0045 | 0237 | 979R | A | |
| 977 | 0220 | 0236 | 979R | A | | 025345 | W050.9 | 0236 | 0435 | 979R | B | |
| 977 | 0236 | 0319 | 979R | B | | | | 0620 | 0753 | 980A | B | |
| 978 | 0408 | 0435 | 979R | B | | 044102 | W077.7 | 0759 | 0941 | 981A | B | |
| 979 | 0620 | 0653 | 980A | B | | 062818 | W104.5 | 0946 | 1124 | 982A | B | |
| 980 | 0742 | 0752 | 980A | B | | 081535 | W131.4 | 1131 | 1311 | 983A | B | |
| 980 | 0759 | 0841 | 981A | B | | | | 1317 | 1455 | 984A | B | |
| 981 | 0929 | 0940 | 981A | B | | 100251 | W158.2 | 1501 | 1639 | 985A | B | |
| 981 | 0946 | 1028 | 982A | B | | | | 1645 | 1826 | 986A | B | |
| 982 | 1117 | 1125 | 982A | B | | 115008 | E175.0 | 1830 | 2009 | 987A | B | |
| 982 | 1131 | 1215 | 983A | B | | | | 2014 | 2158 | 988A | B | |
| 983 | 1304 | 1310 | 983A | B | | 133724 | E148.2 | 2159 | 2357 | 994A | A | |
| 983 | 1317 | 1403 | 984A | B | | | | | | | | |
| 984 | 1501 | 1550 | 985A | B | | 152441 | E121.4 | | | | | |
| 985 | 1645 | 1737 | 986A | B | | 171158 | E094.6 | | | | | |
| 986 | 1830 | 1924 | 987A | B | | 185914 | E067.8 | | | | | |
| 987 | 2014 | 2112 | 988A | B | | 204631 | E040.9 | | | | | |
| 988 | 2200 | 2259 | 994A | A | | 223347 | E014.1 | | | | | |
| 989 | 2348 | 2357 | 994A | A | | 002104 | W012.7 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 23 FEBRUARY 1973

| THIR | | | | | | ASC. AND | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D R | THIR GRID CORR | DESC. NODE | | | | | INT ORBIT | H D R |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | S | LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 990 | | | | | | 011450 | E153.8 | 991 | 0146 | 0346 | 992R | B |
| 991 | 0234 | 0322 | 992R | B | | 030206 | E127.0 | 993 | 0537 | 0715 | 993R | B |
| 992 | | | | | | 044923 | E100.2 | 994 | 0720 | 0854 | 994A | B |
| 993 | 0608 | 0657 | 993R | B | | 063639 | E073.4 | 995 | 0858 | 1042 | 995A | B |
| 994 | 0755 | 0844 | 994A | B | | 082356 | E046.6 | 996 | 1048 | 1228 | 996A | B |
| 995 | 0943 | 1031 | 995A | B | | 101112 | E019.7 | 997 | 1232 | 1411 | 997A | B |
| 996 | 1130 | 1219 | 996A | B | | 115829 | W007.1 | 998 | 1416 | 1556 | 998A | B |
| 997 | 1317 | 1406 | 997A | B | | 134545 | W033.9 | 999 | 1601 | 1741 | 999A | B |
| 998 | 1505 | 1553 | 998A | B | | 153302 | W060.7 | 1000 | 1745 | 1925 | 1000A | B |
| 999 | 1652 | 1740 | 999A | A | | 172019 | W087.5 | 1001 | 1929 | 2111 | 1001A | B |
| 1000 | 1839 | 1924 | 1000A | B | | 190735 | W114.4 | 1002 | 2116 | 2259 | 1002A | B |
| 1001 | 2026 | 2111 | 1001A | B | | 205452 | W141.2 | | | | | |
| 1002 | 2214 | 2259 | 1002A | B | | 224208 | W168.0 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 990 | 0147 | 0234 | 992R | B | | 020820 | W039.5 | 0146 | 0346 | 992R | B | |
| 991 | 0322 | 0345 | 992R | B | | 035537 | W066.3 | 0537 | 0714 | 993R | B | |
| 992 | 0537 | 0608 | 993R | B | | 054254 | W093.2 | 0720 | 0854 | 994A | B | |
| 993 | 0657 | 0714 | 993R | B | | 073010 | W120.0 | 0858 | 1042 | 995A | B | |
| 993 | 0720 | 0755 | 994A | B | | | | 1047 | 1227 | 996A | B | |
| 994 | 0844 | 0853 | 994A | B | | 091727 | W146.8 | 1232 | 1411 | 997A | B | |
| 995 | 1047 | 1130 | 996A | B | | 110443 | W173.6 | 1416 | 1556 | 998A | B | |
| 996 | 1219 | 1226 | 996A | B | | 125200 | E159.6 | 1601 | 1741 | 999A | B | |
| 996 | 1232 | 1317 | 997A | B | | | | 1745 | 1925 | 1000A | B | |
| 997 | 1416 | 1505 | 998A | B | | 143916 | E132.7 | 1929 | 2111 | 1001A | B | |
| 998 | 1601 | 1652 | 999A | A | | 162633 | E105.9 | 2116 | 2259 | 1002A | B | |
| 999 | 1745 | 1839 | 1000A | B | | 181349 | E079.1 | | | | | |
| 1000 | 1930 | 2026 | 1001A | B | | 200106 | E052.3 | | | | | |
| 1001 | 2116 | 2214 | 1002A | B | | 214823 | E025.5 | | | | | |
| 1002 | | | | | | 233539 | W001.4 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 24 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | ASC. AND DESC. NODE | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1003 | | | | | | 002925 | E165.2 | 1004 | 0101 | 0252 | 1008A | A |
| 1004 | 0148 | 0237 | 1008A | A | | 021641 | E138.4 | 1005 | | | | |
| 1005 | | | | | | 040358 | E111.6 | 1006 | 0446 | 0628 | 1006R | B |
| 1006 | 0523 | 0612 | 1006R | B | 1S | 055114 | E084.8 | 1007 | 0636 | 0810 | 1007A | B |
| 1007 | 0710 | 0759 | 1007A | B | | 073831 | E057.9 | 1008 | 0816 | 0954 | 1008A | B |
| 1008 | 0857 | 0946 | 1008A | B | | 092548 | E031.1 | 1009 | 1000 | 1142 | 1009A | B |
| 1009 | 1045 | 1133 | 1009A | B | | 111304 | E004.3 | 1010 | 1150 | 1327 | 1010A | B |
| 1010 | 1232 | 1321 | 1010A | B | | 130021 | W022.5 | 1011 | 1331 | 1511 | 1011A | B |
| 1011 | 1419 | 1508 | 1011A | B | | 144737 | W049.3 | 1012 | 1516 | 1655 | 1012A | B |
| 1012 | 1607 | 1654 | 1012A | B | 1E | 163454 | W076.2 | 1013 | 1659 | 1839 | 1013A | B |
| 1013 | 1754 | 1838 | 1013A | B | | 182210 | W103.0 | 1014 | 1844 | 2025 | 1014A | B |
| 1014 | 1941 | 2024 | 1014A | B | | 200927 | W129.8 | 1015 | 2030 | 2216 | 1015A | B |
| 1015 | 2128 | 2215 | 1015A | B | | 215643 | W156.6 | 1016 | 2216 | 0015 | 1019R | A |
| 1016 | | | | | | 234400 | E176.5 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 1003 | 0100 | 0148 | 1008A | A | | 012256 | W028.2 | 0101 | 0253 | 1008A | A | |
| 1004 | 0237 | 0251 | 1008A | A | | 031012 | W055.0 | 0441 | 0628 | 1006R | B | |
| 1005 | 0441 | 0523 | 1006R | B | 1N | 045729 | W081.8 | 0636 | 0811 | 1007A | B | |
| 1006 | 0612 | 0627 | 1006R | B | 1N | 064445 | W108.7 | 0816 | 0954 | 1008A | B | |
| 1006 | 0636 | 0710 | 1007A | B | | | | 0959 | 1142 | 1009A | B | |
| 1007 | 0759 | 0810 | 1007A | B | | 083202 | W135.5 | 1150 | 1327 | 1010A | B | |
| 1007 | 0816 | 0857 | 1008A | B | | | | 1331 | 1511 | 1011A | B | |
| 1008 | 0946 | 0953 | 1008A | B | | 101919 | W162.3 | 1517 | 1655 | 1012A | B | |
| 1008 | 0959 | 1045 | 1009A | B | | | | 1659 | 1839 | 1013A | B | |
| 1009 | 1133 | 1141 | 1009A | B | | 120635 | E170.9 | 1844 | 2025 | 1014A | B | |
| 1009 | 1150 | 1232 | 1010A | B | | | | 2030 | 2215 | 1015A | B | |
| 1010 | 1331 | 1419 | 1011A | B | | 135352 | E144.1 | 2215 | 0015 | 1019R | B | |
| 1011 | 1517 | 1607 | 1012A | B | 1W | 154108 | E117.3 | | | | | |
| 1012 | 1700 | 1754 | 1013A | B | | 172825 | E090.5 | | | | | |
| 1013 | 1844 | 1941 | 1014A | B | | 191541 | E063.6 | | | | | |
| 1014 | 2031 | 2128 | 1015A | B | | 210258 | E036.8 | | | | | |
| 1015 | 2217 | 2316 | 1019R | A | | 225015 | E010.0 | | | | | |
| 1016 | 0004 | 0014 | 1019R | A | | 003731 | W016.8 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 25 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1017 | | | | | | 013117 | E149.7 | 1018 | 0203 | 0225 | 1018R | B |
| 1018 | 0250 | 0326 | 1019R | B | | 031833 | E122.9 | 1019 | | | | |
| 1019 | | | | | | 050550 | E096.1 | 1020 | 0548 | 0726 | 1020A | B |
| 1020 | 0625 | 0714 | 1020A | B | | 065306 | E069.3 | 1021 | 0731 | 0911 | 1021A | B |
| 1021 | 0812 | 0901 | 1021A | B | | 084023 | E042.4 | 1022 | 0916 | 1057 | 1022A | B |
| 1022 | 0959 | 1048 | 1022A | B | | 102739 | E015.6 | 1023 | 1103 | 1243 | 1023A | B |
| 1023 | 1147 | 1235 | 1023A | B | | 121456 | W011.2 | 1024 | 1248 | 1428 | 1024A | B |
| 1024 | 1334 | 1423 | 1024A | B | | 140213 | W038.0 | 1025 | 1433 | 1612 | 1025A | B |
| 1025 | 1521 | 1610 | 1025A | B | | 154929 | W064.8 | 1026 | 1617 | 1755 | 1026A | B |
| 1026 | 1709 | 1754 | 1026A | B | | 173646 | W091.7 | 1027 | 1800 | 1939 | 1027A | B |
| 1027 | 1856 | 1939 | 1027A | B | | 192402 | W118.5 | 1028 | 1944 | 2130 | 1028A | B |
| 1028 | 2043 | 2129 | 1028A | B | | 211119 | W145.3 | | | | | |
| 1029 | | | | | | 225835 | W172.1 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1017 | 0203 | 0250 | 1019R | B | | 022448 | W043.6 | | 0203 | 0326 | 1019R | A |
| 1018 | | | | | | 041204 | W070.5 | | 0548 | 0725 | 1020A | B |
| 1019 | 0548 | 0625 | 1020A | B | | 055921 | W097.3 | | 0731 | 0911 | 1021A | B |
| 1020 | 0714 | 0725 | 1020A | B | | 074637 | W124.1 | | 0916 | 1057 | 1022A | B |
| 1020 | 0731 | 0812 | 1021A | B | | | | | 1103 | 1242 | 1023A | B |
| 1021 | 0901 | 0910 | 1021A | B | | 093354 | W150.9 | | 1248 | 1428 | 1024A | B |
| 1021 | 0916 | 0959 | 1022A | B | | | | | 1433 | 1611 | 1025A | B |
| 1022 | 1048 | 1057 | 1022A | B | | 112110 | W177.7 | | 1617 | 1755 | 1026A | B |
| 1022 | 1103 | 1147 | 1023A | B | | | | | 1800 | 1939 | 1027A | B |
| 1023 | 1235 | 1242 | 1023A | B | | 130827 | E155.4 | | 1945 | 2130 | 1028A | B |
| 1023 | 1249 | 1334 | 1024A | B | | | | | | | | |
| 1024 | 1433 | 1521 | 1025A | B | | 145544 | E128.6 | | | | | |
| 1025 | 1617 | 1709 | 1026A | B | | 164300 | E101.8 | | | | | |
| 1026 | 1800 | 1856 | 1027A | B | | 183017 | E075.0 | | | | | |
| 1027 | 1945 | 2043 | 1028A | B | | 201733 | E048.2 | | | | | |
| 1028 | | | | | | 220450 | E021.3 | | | | | |
| 1029 | | | | | | 235206 | W005.5 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 26 FEBRUARY 1973

| THIR | | | | | | | ASC. AND DESC. NODE | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | TIME HRMNSS | NODE LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 1030 | | | | | | 004552 | E161.1 | 1031 | 0117 | 0308 | 1032R | A |
| 1031 | 0205 | 0254 | 1032R | A | | 023308 | E134.3 | 1032 | 0304 | 0459 | 1032R | B |
| 1032 | 0352 | 0441 | 1032R | B | | 042025 | E107.5 | 1033 | 0504 | 0646 | 1033A | B |
| 1033 | 0540 | 0628 | 1033R | B | | 060742 | E080.6 | 1034 | 0652 | 0826 | 1034A | B |
| 1034 | 0727 | 0816 | 1034A | B | | 075458 | E053.8 | 1035 | 0834 | 1011 | 1035A | B |
| 1035 | 0914 | 1003 | 1035A | B | | 094215 | E027.0 | 1036 | 1017 | 1158 | 1036A | B |
| 1036 | 1101 | 1150 | 1036A | B | | 112931 | E000.2 | 1037 | 1204 | 1344 | 1037A | B |
| 1037 | 1249 | 1337 | 1037A | B | | 131648 | W026.6 | 1038 | 1349 | 1529 | 1038A | B |
| 1038 | 1436 | 1525 | 1038A | B | | 150404 | W053.5 | 1039 | 1534 | 1713 | 1039A | B |
| 1039 | 1623 | 1712 | 1039A | B | | 165121 | W080.3 | 1040 | 1719 | 1857 | 1040A | B |
| 1040 | 1811 | 1856 | 1040A | B | | 183837 | W107.1 | 1041 | 1902 | 2043 | 1041A | B |
| 1041 | 1958 | 2041 | 1041A | B | | 202554 | W133.9 | 1042 | 2047 | 2228 | 1042A | B |
| 1042 | 2145 | 2227 | 1042A | B | | 221311 | W160.7 | | | | | |
| 1042 | 2229 | 2234 | 1046R | A | | | | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 1030 | 0117 | 0205 | 1032R | A | | 013923 | W032.3 | 0117 | 0307 | 1032R | B | |
| 1031 | 0254 | 0306 | 1032R | A | | 032640 | W059.1 | 0305 | 0459 | 1032R | A | |
| 1031 | 0305 | 0352 | 1032R | B | | | | 0504 | 0646 | 1033R | B | |
| 1032 | 0441 | 0458 | 1032R | B | | 051356 | W085.9 | 0652 | 0826 | 1034A | B | |
| 1032 | 0504 | 0540 | 1033R | B | | | | 0834 | 1011 | 1035A | B | |
| 1033 | 0628 | 0645 | 1033R | B | | 070113 | W112.8 | 1017 | 1158 | 1036A | B | |
| 1033 | 0652 | 0727 | 1034A | B | | | | 1204 | 1344 | 1037A | B | |
| 1034 | 0816 | 0826 | 1034A | B | | 084829 | W139.6 | 1349 | 1529 | 1038A | B | |
| 1034 | 0834 | 0914 | 1035A | B | | | | 1534 | 1713 | 1039A | B | |
| 1035 | 1003 | 1010 | 1035A | B | | 103546 | W166.4 | 1719 | 1857 | 1040A | B | |
| 1035 | 1017 | 1101 | 1036A | B | | | | 1902 | 2042 | 1041A | B | |
| 1036 | 1150 | 1157 | 1036A | B | | 122302 | E166.8 | 2047 | 2228 | 1042A | B | |
| 1036 | 1204 | 1249 | 1037A | B | | | | 2229 | 0030 | 1046R | A | |
| 1037 | 1337 | 1343 | 1037A | B | | 141019 | E140.0 | | | | | |
| 1037 | 1349 | 1436 | 1038A | B | | | | | | | | |
| 1038 | 1534 | 1623 | 1039A | B | | 155736 | E113.2 | | | | | |
| 1039 | 1719 | 1811 | 1040A | B | | 174452 | E086.4 | | | | | |
| 1040 | 1902 | 1958 | 1041A | B | | 193209 | E059.5 | | | | | |
| 1041 | 2047 | 2145 | 1042A | B | | 211925 | E032.7 | | | | | |
| 1042 | 2234 | 2332 | 1046R | A | | 230642 | E005.9 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 27 FEBRUARY 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | ASC. AND DESC. NODE | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1043 | 2332 | 0021 | 1046R | A | | 000027 | E172.4 | 1043 | 2231 | 0031 | 1046R | A |
| 1044 | | | | | | 014744 | E145.6 | 1046 | 0415 | 0600 | 1046R | B |
| 1045 | | | | | | 033500 | E118.8 | 1047 | 0606 | 0741 | 1047A | B |
| 1046 | 0454 | 0543 | 1046R | B | 1N | 052217 | E092.0 | 1048 | 0746 | 0927 | 1048A | B |
| 1047 | 0642 | 0730 | 1047A | B | | 070933 | E065.2 | 1049 | 0935 | 1112 | 1049A | B |
| 1048 | 0829 | 0918 | 1048A | B | | 085650 | E038.4 | 1050 | 1118 | 1259 | 1050A | B |
| 1049 | 1016 | 1105 | 1049A | B | | 104406 | E011.5 | 1051 | 1304 | 1445 | 1051A | B |
| 1050 | 1203 | 1252 | 1050A | A | | 123123 | W015.3 | 1052 | 1449 | 1627 | 1052A | B |
| 1051 | 1351 | 1439 | 1051A | B | | 141840 | W042.1 | 1053 | 1632 | 1813 | 1053A | B |
| 1052 | 1538 | 1626 | 1052A | B | 2S | 160556 | W068.9 | 1054 | 1818 | 1958 | 1054A | B |
| 1053 | 1725 | 1812 | 1053A | B | | 175313 | W095.8 | 1055 | 2003 | 2144 | 1055A | B |
| 1054 | 1912 | 1958 | 1054A | B | | 194029 | W122.6 | | | | | |
| 1055 | 2100 | 2143 | 1055A | B | | 212746 | W149.4 | | | | | |
| 1056 | | | | | | 231502 | W176.2 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1043 | 0021 | 0030 | 1046R | A | | 005358 | W020.9 | | 0415 | 0600 | 1046R | B |
| 1044 | | | | | | 024115 | W047.7 | | 0606 | 0741 | 1047R | B |
| 1045 | 0415 | 0454 | 1046R | B | 1S | 042831 | W074.6 | | 0746 | 0927 | 1048A | B |
| 1046 | 0543 | 0600 | 1046R | B | 1S | 061548 | W101.4 | | 0935 | 1113 | 1049A | B |
| 1046 | 0606 | 0642 | 1047A | B | | | | | 1118 | 1259 | 1050A | B |
| 1047 | 0730 | 0740 | 1047A | B | | 080305 | W128.2 | | 1304 | 1444 | 1051A | B |
| 1047 | 0747 | 0829 | 1048A | B | | | | | 1449 | 1627 | 1052A | B |
| 1048 | 0918 | 0927 | 1048A | B | | 095021 | W155.0 | | 1633 | 1813 | 1053A | B |
| 1048 | 0935 | 1016 | 1049A | B | | | | | 1818 | 1958 | 1054A | B |
| 1049 | 1105 | 1112 | 1049A | B | | 113738 | E178.1 | | 2003 | 2144 | 1055A | B |
| 1049 | 1118 | 1203 | 1050A | A | | | | | | | | |
| 1050 | 1252 | 1258 | 1050A | A | | 132454 | E151.3 | | | | | |
| 1050 | 1304 | 1351 | 1051A | B | | | | | | | | |
| 1051 | 1449 | 1538 | 1052A | B | 2N | 151211 | E124.5 | | | | | |
| 1052 | 1633 | 1725 | 1053A | B | | 165927 | E097.7 | | | | | |
| 1053 | 1818 | 1912 | 1054A | B | | 184644 | E070.9 | | | | | |
| 1054 | 2004 | 2100 | 1055A | B | | 203401 | E044.0 | | | | | |
| 1055 | | | | | | 222117 | E017.2 | | | | | |
| 1056 | | | | | | 000834 | W009.6 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 28 FEBRUARY 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1057 | | | | | | 010219 | E157.0 | 1058 | 0133 | 0322 | 1059R | A |
| 1058 | 0222 | 0310 | 1059R | A | | 024935 | E130.2 | 1059 | 0321 | 0514 | 1059R | B |
| 1059 | 0409 | 0458 | 1059R | B | | 043652 | E103.4 | 1060 | 0520 | 0702 | 1060R | B |
| 1060 | 0556 | 0645 | 1060R | B | | 062409 | E076.5 | 1061 | 0708 | 0841 | 1061A | B |
| 1061 | 0743 | 0832 | 1061A | B | | 081125 | E049.7 | 1062 | 0847 | 1028 | 1062A | B |
| 1062 | 0931 | 1020 | 1062A | B | | 095842 | E022.9 | 1063 | 1033 | 1111 | 1063A | B |
| 1063 | 1118 | 1207 | 1063A | B | | 114558 | W003.9 | 1063 | 1033 | 1213 | 1063A | B |
| 1064 | 1305 | 1354 | 1064A | B | | 133315 | W030.7 | 1064 | 1219 | 1402 | 1064A | B |
| 1065 | 1453 | 1541 | 1065A | B | | 152031 | W057.6 | 1065 | 1408 | 1544 | 1065A | B |
| 1066 | 1640 | 1729 | 1066A | B | 1E | 170748 | W084.4 | 1066 | 1549 | 1725 | 1066A | B |
| 1067 | 1827 | 1911 | 1067A | B | | 185504 | W111.2 | 1067 | 1735 | 1911 | 1067A | B |
| 1068 | 2014 | 2059 | 1068A | B | | 204221 | W138.0 | 1068 | 1916 | 2059 | 1068A | B |
| 1069 | 2202 | 2246 | 1069A | B | | 222938 | W164.9 | 1069 | 2104 | 2247 | 1069A | B |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1057 | 0133 | 0222 | 1059R | A | | 015550 | W036.4 | | 0134 | 0322 | 1059R | A |
| 1058 | 0310 | 0322 | 1059R | A | | 034307 | W063.2 | | 0321 | 0514 | 1059R | B |
| 1058 | 0322 | 0409 | 1059R | B | | | | | 0519 | 0702 | 1060R | B |
| 1059 | 0458 | 0514 | 1059R | B | | 053023 | W090.0 | | 0708 | 0842 | 1061A | B |
| 1059 | 0520 | 0556 | 1060R | B | | | | | 0847 | 1028 | 1062A | B |
| 1060 | 0645 | 0702 | 1060R | B | | 071740 | W116.9 | | 1033 | 1214 | 1063A | B |
| 1060 | 0708 | 0743 | 1061A | B | | | | | 1219 | 1402 | 1064A | B |
| 1061 | 0832 | 0840 | 1061A | B | | 090457 | W143.7 | | 1407 | 1544 | 1065A | B |
| 1061 | 0847 | 0931 | 1062A | B | | | | | 1549 | 1730 | 1066A | B |
| 1062 | 1020 | 1027 | 1062A | B | | 105213 | W170.5 | | 1735 | 1911 | 1067A | B |
| 1062 | 1033 | 1118 | 1063A | B | | | | | 1916 | 2059 | 1068A | B |
| 1063 | 1207 | 1213 | 1063A | B | | 123930 | E162.7 | | 2104 | 2247 | 1069A | B |
| 1063 | 1219 | 1305 | 1064A | B | | | | | 2248 | 0047 | 1073R | A |
| 1064 | 1354 | 1401 | 1064A | B | | 142646 | E135.9 | | | | | |
| 1064 | 1408 | 1453 | 1065A | B | | | | | | | | |
| 1065 | 1549 | 1640 | 1066A | B | 1W | 161403 | E109.1 | | | | | |
| 1066 | 1735 | 1827 | 1067A | B | | 180119 | E082.2 | | | | | |
| 1067 | 1916 | 2014 | 1068A | B | | 194836 | E055.4 | | | | | |
| 1068 | 2104 | 2202 | 1069A | B | | 213552 | E028.6 | | | | | |
| 1069 | 2251 | 2349 | 1073R | A | 1N | 232309 | E001.8 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 1 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1070 | 2349 | 0038 | 1073R | A | 1S | 001654 | E168.3 | 1070 | 2248 | 0047 | 1073R | A |
| 1071 | | | | | | 020411 | E141.5 | 1073 | 0430 | 0617 | 1073R | B |
| 1072 | | | | | | 035127 | E114.7 | 1074 | 0623 | 0757 | 1074A | B |
| 1073 | 0511 | 0600 | 1073R | B | | 053844 | E087.9 | 1075 | 0802 | 0945 | 1075A | B |
| 1074 | 0658 | 0747 | 1074A | B | | 072600 | E061.1 | 1076 | 0949 | 1129 | 1076A | B |
| 1075 | 0845 | 0934 | 1075A | B | | 091317 | E034.2 | 1077 | 1134 | 1315 | 1077A | B |
| 1076 | 1033 | 1122 | 1076A | B | | 110033 | E007.4 | 1078 | 1322 | 1501 | 1078A | B |
| 1077 | 1220 | 1309 | 1077A | B | | 124750 | W019.4 | 1079 | 1506 | 1645 | 1079A | B |
| 1078 | 1407 | 1456 | 1078A | B | | 143507 | W046.2 | 1080 | 1650 | 1829 | 1080A | B |
| 1079 | 1555 | 1643 | 1079A | B | 2S | 162223 | W073.0 | 1081 | 1834 | 2014 | 1081A | B |
| 1080 | 1742 | 1828 | 1080A | B | | 180940 | W099.9 | 1082 | 2021 | 2200 | 1082A | B |
| 1081 | 1929 | 2014 | 1081A | B | | 195656 | W126.7 | | | | | |
| 1082 | 2116 | 2159 | 1082A | B | | 214413 | W153.5 | | | | | |
| 1083 | | | | | | 233129 | E179.7 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 1070 | 0038 | 0046 | 1073R | A | 1N | 011026 | W025.0 | 0430 | 0617 | 1073R | B | |
| 1071 | | | | | | 025742 | W051.9 | 0623 | 0757 | 1074A | B | |
| 1072 | 0430 | 0511 | 1073R | B | | 044459 | W078.7 | 0802 | 0944 | 1075A | B | |
| 1073 | 0600 | 0616 | 1073R | B | | 063215 | W105.5 | 0949 | 1129 | 1076A | B | |
| 1073 | 0623 | 0658 | 1074A | B | | | | 1134 | 1315 | 1077A | B | |
| 1074 | 0747 | 0756 | 1074A | B | | 081932 | W132.3 | 1322 | 1501 | 1078A | B | |
| 1074 | 0802 | 0845 | 1075A | B | | | | 1506 | 1645 | 1079A | B | |
| 1075 | 0934 | 0943 | 1075A | B | | 100648 | W159.1 | 1650 | 1829 | 1080A | B | |
| 1075 | 0949 | 1033 | 1076A | B | | | | 1834 | 2014 | 1081A | B | |
| 1076 | 1122 | 1128 | 1076A | B | | 115405 | E174.0 | 2021 | 2200 | 1082A | B | |
| 1076 | 1134 | 1220 | 1077A | B | | | | | | | | |
| 1077 | 1309 | 1316 | 1077A | B | | 134122 | E147.2 | | | | | |
| 1077 | 1322 | 1407 | 1078A | B | | | | | | | | |
| 1078 | 1506 | 1555 | 1079A | B | 2N | 152838 | E120.4 | | | | | |
| 1079 | 1650 | 1742 | 1080A | B | | 171555 | E093.6 | | | | | |
| 1080 | 1834 | 1929 | 1081A | B | | 190311 | E066.8 | | | | | |
| 1081 | 2021 | 2116 | 1082A | B | | 205028 | E039.9 | | | | | |
| 1082 | | | | | | 223744 | E013.1 | | | | | |
| 1083 | | | | | | 002501 | W013.7 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 2 MARCH 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1084 | | | | | | 011846 | E152.9 | 1085 | 0150 | 0348 | 1086R | A |
| 1085 | 0238 | 0327 | 1086R | A | | 030602 | E126.1 | 1086 | 0347 | 0530 | 1086R | B |
| 1086 | 0426 | 0514 | 1086R | B | | 045319 | E099.2 | 1087 | 0536 | 0718 | 1087R | B |
| 1087 | 0613 | 0702 | 1087R | B | | 064036 | E072.4 | 1088 | 0723 | 0859 | 1088A | B |
| 1088 | 0800 | 0849 | 1088A | B | | 082752 | E045.6 | 1089 | 0903 | 1045 | 1089A | B |
| 1089 | 0947 | 1036 | 1089A | B | | 101509 | E018.8 | 1090 | 1050 | 1230 | 1090A | B |
| 1090 | 1135 | 1223 | 1090A | B | | 120225 | W008.0 | 1091 | 1235 | 1416 | 1091A | B |
| 1091 | 1322 | 1411 | 1091A | B | | 134942 | W034.9 | 1092 | 1421 | 1600 | 1092A | B |
| 1092 | 1509 | 1558 | 1092A | B | | 153658 | W061.7 | 1093 | 1606 | 1747 | 1093A | B |
| 1093 | 1657 | 1745 | 1093A | B | | 172415 | W088.5 | 1094 | 1752 | 1929 | 1094A | B |
| 1094 | 1844 | 1928 | 1094A | B | | 191131 | W115.3 | 1095 | 1934 | 2117 | 1095A | B |
| 1095 | 2031 | 2116 | 1095A | B | | 205848 | W142.1 | 1096 | 2123 | 2305 | 1096A | B |
| 1096 | 2218 | 2304 | 1096A | B | | 224605 | W169.0 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1084 | 0150 | 0238 | 1086R | A | | 021218 | W040.5 | | 0150 | 0348 | 1086R | A |
| 1085 | 0327 | 0348 | 1086R | A | | 035934 | W067.4 | | 0347 | 0530 | 1086R | B |
| 1085 | 0348 | 0426 | 1086R | B | | | | | 0535 | 0718 | 1087R | B |
| 1086 | 0514 | 0529 | 1086R | B | | 054651 | W094.2 | | 0723 | 0859 | 1088R | B |
| 1086 | 0536 | 0613 | 1087R | B | | | | | 0903 | 1045 | 1089A | B |
| 1087 | 0702 | 0717 | 1087R | B | | 073407 | W121.0 | | 1050 | 1230 | 1090A | B |
| 1087 | 0724 | 0800 | 1088A | B | | | | | 1235 | 1416 | 1091A | B |
| 1088 | 0849 | 0858 | 1088A | B | | 092124 | W147.8 | | 1421 | 1601 | 1092A | B |
| 1088 | 0903 | 0947 | 1089A | B | | | | | 1606 | 1747 | 1093A | B |
| 1089 | 1036 | 1044 | 1089A | B | | 110840 | W174.6 | | 1752 | 1929 | 1094A | B |
| 1089 | 1050 | 1135 | 1090A | B | | | | | 1934 | 2117 | 1095A | B |
| 1090 | 1223 | 1228 | 1090A | B | | 125557 | E158.6 | | 2123 | 2305 | 1096A | B |
| 1090 | 1235 | 1322 | 1091A | B | | | | | 2307 | 0103 | 1100R | B |
| 1091 | 1421 | 1509 | 1092A | B | | 144313 | E131.8 | | | | | |
| 1092 | 1606 | 1657 | 1093A | B | | 163030 | E104.9 | | | | | |
| 1093 | 1752 | 1844 | 1094A | B | | 181747 | E078.1 | | | | | |
| 1094 | 1934 | 2031 | 1095A | B | | 200503 | E051.3 | | | | | |
| 1095 | 2123 | 2218 | 1096A | B | | 215220 | E024.5 | | | | | |
| 1096 | 2307 | 0006 | 1100R | A | | 233936 | W002.3 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 3 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1097 | 0006 | 0054 | 1100R | A | | 003321 | E164.2 | 1097 | 2307 | 0103 | 1100R | A |
| 1098 | | | | | | 022038 | E137.4 | 1100 | 0448 | 0632 | 1100R | B |
| 1099 | | | | | | 040754 | E110.6 | 1101 | 0637 | 0814 | 1101A | B |
| 1100 | 0528 | 0616 | 1100R | B | 1E | 055511 | E083.8 | 1102 | 0819 | 0958 | 1102A | B |
| 1101 | 0715 | 0804 | 1101A | B | | 074227 | E056.9 | 1103 | 1004 | 1145 | 1103A | B |
| 1102 | 0902 | 0951 | 1102A | B | 1N | 092944 | E030.1 | 1104 | 1150 | 1333 | 1104A | B |
| 1103 | 1049 | 1138 | 1103A | B | | 111700 | E003.3 | 1105 | 1338 | 1516 | 1105A | B |
| 1104 | 1237 | 1325 | 1104A | B | | 130417 | W023.5 | 1106 | 1521 | 1701 | 1106A | B |
| 1105 | 1424 | 1513 | 1105A | B | 1N | 145134 | W050.3 | 1107 | 1706 | 1847 | 1107A | B |
| 1106 | 1611 | 1700 | 1106A | B | | 163850 | W077.2 | 1108 | 1851 | 2032 | 1108A | B |
| 1107 | 1759 | 1846 | 1107A | B | | 182607 | W104.0 | 1109 | 2037 | 2216 | 1109A | B |
| 1108 | 1946 | 2032 | 1108A | B | | 201323 | W130.8 | | | | | |
| 1109 | 2133 | 2216 | 1109A | B | | 220040 | W157.6 | | | | | |
| 1110 | | | | | | 234756 | E175.6 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 1097 | 0054 | 0102 | 1100R | A | | 012653 | W029.2 | 0449 | 0632 | 1100R | A | |
| 1098 | | | | | | 031409 | W056.0 | 0637 | 0814 | 1101A | B | |
| 1099 | 0448 | 0528 | 1100R | B | 1W | 050126 | W082.8 | 0819 | 0958 | 1102A | B | |
| 1100 | 0616 | 0631 | 1100R | B | 1W | 064843 | W109.6 | 1003 | 1145 | 1103A | B | |
| 1100 | 0637 | 0715 | 1101A | B | | | | 1150 | 1333 | 1104A | B | |
| 1101 | 0804 | 0813 | 1101A | B | | 083559 | W136.4 | 1338 | 1516 | 1105A | B | |
| 1101 | 0819 | 0902 | 1102A | B | 1S | | | 1521 | 1701 | 1106A | B | |
| 1102 | 0951 | 0958 | 1102A | B | 1S | 102316 | W163.3 | 1706 | 1847 | 1107A | B | |
| 1102 | 1004 | 1049 | 1103A | B | | | | 1851 | 2032 | 1108A | B | |
| 1103 | 1138 | 1144 | 1103A | B | | 121032 | E169.9 | 2037 | 2216 | 1109A | B | |
| 1103 | 1150 | 1237 | 1104A | B | | | | | | | | |
| 1104 | 1325 | 1332 | 1104A | B | | 135749 | E143.1 | | | | | |
| 1104 | 1338 | 1424 | 1105A | B | 1S | | | | | | | |
| 1105 | 1521 | 1611 | 1106A | B | | 154505 | E116.3 | | | | | |
| 1106 | 1706 | 1759 | 1107A | B | | 173222 | E089.5 | | | | | |
| 1107 | 1852 | 1946 | 1108A | B | | 191938 | E062.6 | | | | | |
| 1108 | 2038 | 2133 | 1109A | B | | 210655 | E035.8 | | | | | |
| 1109 | | | | | | 225412 | E009.0 | | | | | |
| 1110 | 0020 | 0108 | 1113R | A | | 004128 | W017.8 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 4 MARCH 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1111 | 0108 | 0156 | 1113R | A | | 013513 | E148.8 | 1111 | 0020 | 0215 | 1113R | A |
| 1112 | 0255 | 0344 | 1112R | B | | 032230 | E122.0 | 1112 | 0206 | 0405 | 1112R | B |
| 1113 | 0442 | 0531 | 1113R | B | | 050946 | E095.1 | 1113 | 0409 | 0547 | 1113R | B |
| 1114 | 0630 | 0718 | 1114A | B | 1E | 065703 | E068.3 | 1114 | 0552 | 0728 | 1114A | B |
| 1115 | 0817 | 0906 | 1115A | B | 1E | 084419 | E041.5 | 1115 | 0733 | 0914 | 1115A | B |
| 1116 | 1004 | 1053 | 1116A | B | | 103136 | E014.7 | 1116 | 0919 | 1100 | 1116A | B |
| 1117 | 1151 | 1240 | 1117A | B | | 121852 | W012.1 | 1117 | 1105 | 1246 | 1117A | B |
| 1118 | 1339 | 1427 | 1118A | B | | 140609 | W039.0 | 1118 | 1251 | 1434 | 1118A | B |
| 1119 | 1526 | 1615 | 1119A | B | | 155325 | W065.8 | 1119 | 1438 | 1616 | 1119A | B |
| 1120 | 1713 | 1802 | 1120A | B | | 174042 | W092.6 | 1120 | 1620 | 1804 | 1120A | B |
| 1121 | 1901 | 1947 | 1121A | B | | 192759 | W119.4 | 1121 | 1809 | 1948 | 1121A | B |
| 1122 | 2048 | 2132 | 1122A | B | | 211515 | W146.3 | 1122 | 1952 | 2133 | 1122A | B |
| 1123 | 2235 | 2319 | 1123A | B | | 230232 | W173.1 | 1123 | 2138 | 2320 | 1123A | B |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1111 | 0156 | 0213 | 1113R | A | | | | | | | | |
| 1111 | 0206 | 0255 | 1112R | B | | 022845 | W044.6 | | 0020 | 0214 | 1113R | A |
| 1112 | 0344 | 0402 | 1112R | B | | 041601 | W071.5 | | 0206 | 0313 | 1112R | B |
| 1112 | 0409 | 0442 | 1113R | B | | | | | 0409 | 0547 | 1113R | B |
| 1113 | 0531 | 0547 | 1113R | B | | 060318 | W098.3 | | 0553 | 0728 | 1114A | B |
| 1113 | 0553 | 0630 | 1114A | B | 1W | | | | 0733 | 0914 | 1115A | B |
| 1114 | 0718 | 0727 | 1114A | B | 1W | 075034 | W125.1 | | 0919 | 1100 | 1116A | B |
| 1114 | 0733 | 0817 | 1115A | B | 1W | | | | 1105 | 1246 | 1117A | B |
| 1115 | 0906 | 0913 | 1115A | B | 1W | 093751 | W151.9 | | 1251 | 1434 | 1118A | B |
| 1115 | 0919 | 1004 | 1116A | B | | | | | 1438 | 1616 | 1119A | B |
| 1116 | 1053 | 1059 | 1116A | B | | 112508 | W178.7 | | 1621 | 1804 | 1120A | B |
| 1116 | 1105 | 1151 | 1117A | B | | | | | 1809 | 1948 | 1121A | B |
| 1117 | 1240 | 1245 | 1117A | B | | 131224 | E154.5 | | 1953 | 2133 | 1122A | B |
| 1117 | 1251 | 1339 | 1118A | B | | | | | 2138 | 2320 | 1123A | B |
| 1118 | 1427 | 1433 | 1118A | B | | 145941 | E127.7 | | 2321 | 0119 | 1126R | B |
| 1118 | 1438 | 1526 | 1119A | B | | | | | | | | |
| 1119 | 1621 | 1713 | 1120A | B | | 164657 | E100.8 | | | | | |
| 1120 | 1809 | 1901 | 1121A | B | | 183414 | E074.0 | | | | | |
| 1121 | 1953 | 2048 | 1122A | B | | 202130 | E047.2 | | | | | |
| 1122 | 2138 | 2235 | 1123A | B | | 220847 | E020.4 | | | | | |
| 1123 | 2324 | 0022 | 1126R | A | | 235604 | W006.4 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY: ON-OFF TIMES
# 5 MARCH 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | | DAYTIME THIR | | | | ASC. NODE | | | | | | |
| 1124 | 0022 | 0111 | 1126R | A | | 004948 | E160.1 | 1124 | 2320 | 0119 | 1126R | A |
| 1125 | | | | | | 023705 | E133.3 | 1126 | 0308 | 0501 | 1126R | B |
| 1126 | 0357 | 0446 | 1126R | B | | 042421 | E106.5 | 1127 | 0508 | 0650 | 1127R | B |
| 1127 | 0544 | 0633 | 1127R | B | | 061138 | E079.6 | 1128 | 0655 | 0830 | 1128A | B |
| 1128 | 0732 | 0820 | 1128A | B | | 075854 | E052.8 | 1129 | 0835 | 1015 | 1129A | B |
| 1129 | 0919 | 1008 | 1129A | B | | 094611 | E026.0 | 1130 | 1020 | 1201 | 1130A | B |
| 1130 | 1106 | 1155 | 1130A | B | | 113328 | W000.8 | 1131 | 1207 | 1349 | 1131A | B |
| 1131 | 1253 | 1342 | 1131A | B | | 132044 | W027.6 | 1132 | 1354 | 1536 | 1132A | B |
| 1132 | 1441 | 1529 | 1132A | B | | 150801 | W054.5 | 1133 | 1540 | 1719 | 1133A | B |
| 1133 | 1628 | 1717 | 1133A | B | | 165517 | W081.3 | 1134 | 1723 | 1900 | 1134A | B |
| 1134 | 1815 | 1900 | 1134A | B | | 184234 | W108.1 | 1135 | 1905 | 2049 | 1135A | B |
| 1135 | 2003 | 2048 | 1135A | B | | 202950 | W134.9 | 1136 | 2054 | 2234 | 1136A | B |
| 1136 | 2150 | 2233 | 1136A | B | | 221707 | W161.7 | | | | | |
| | | NIGHTTIME THIR | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1124 | 0111 | 0119 | 1126R | A | | 014320 | W033.3 | | 0309 | 0501 | 1126R | A |
| 1125 | 0309 | 0357 | 1126R | B | | 033037 | W060.1 | | 0507 | 0650 | 1127R | B |
| 1126 | 0446 | 0501 | 1126R | B | | 051753 | W086.9 | | 0655 | 0830 | 1128A | B |
| 1126 | 0507 | 0544 | 1127R | B | | | | | 0835 | 1015 | 1129A | B |
| 1127 | 0633 | 0650 | 1127R | B | | 070510 | W113.7 | | 1020 | 1211 | 1130A | B |
| 1127 | 0656 | 0732 | 1128A | B | | | | | 1206 | 1349 | 1131A | B |
| 1128 | 0820 | 0829 | 1128A | B | | 085226 | W140.6 | | 1354 | 1535 | 1132A | B |
| 1128 | 0835 | 0919 | 1129A | B | | | | | 1540 | 1719 | 1133A | B |
| 1129 | 1008 | 1014 | 1129A | B | | 103943 | W167.4 | | 1723 | 1900 | 1134A | B |
| 1129 | 1020 | 1106 | 1130A | B | | | | | 1905 | 2049 | 1135A | B |
| 1130 | 1155 | 1201 | 1130A | B | | 122659 | E165.8 | | 2054 | 2234 | 1136A | B |
| 1130 | 1207 | 1253 | 1131A | B | | | | | | | | |
| 1131 | 1342 | 1349 | 1131A | B | | 141416 | E139.0 | | | | | |
| 1131 | 1355 | 1441 | 1132A | B | | | | | | | | |
| 1132 | 1529 | 1535 | 1132A | B | | 160133 | E112.2 | | | | | |
| 1132 | 1540 | 1628 | 1133A | B | | | | | | | | |
| 1133 | 1724 | 1815 | 1134A | B | | 174849 | E085.4 | | | | | |
| 1134 | 1905 | 2003 | 1135A | B | | 193606 | E058.5 | | | | | |
| 1135 | 2054 | 2150 | 1136A | B | | 212322 | E031.7 | | | | | |
| 1136 | | | | | | 231039 | E004.9 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 6 MARCH 1973

| THIR | | | | | | | ASC. AND DESC. NODE | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | | **ASC. NODE** | | | | | | |
| 1137 | | | | | | | 000423 | E171.5 | 1138 | 0035 | 0230 | 1139R | A |
| 1138 | 0124 | 0213 | 1139R | A | | | 015140 | E144.6 | 1139 | 0222 | 0418 | 1139R | B |
| 1139 | 0312 | 0400 | 1139R | B | | | 033857 | E117.8 | 1140 | 0423 | 0604 | 1140R | B |
| 1140 | 0459 | 0548 | 1140R | B | | | 052613 | E091.0 | 1141 | 0610 | 0746 | 1141A | B |
| 1141 | 0646 | 0735 | 1141A | B | | | 071330 | E064.2 | 1142 | 0750 | 0930 | 1142A | B |
| 1142 | 0834 | 0922 | 1142A | B | 1E | | 090046 | E037.4 | 1143 | 0935 | 1115 | 1143A | B |
| 1143 | 1028 | 1110 | 1143A | B | | | 104803 | E010.6 | 1144 | 1121 | 1302 | 1144A | B |
| 1144 | 1208 | 1257 | 1144A | B | | | 123519 | W016.3 | 1145 | 1308 | 1449 | 1145A | B |
| 1145 | 1355 | 1444 | 1145A | B | | | 142236 | W043.1 | 1146 | 1454 | 1632 | 1146A | B |
| 1146 | 1543 | 1631 | 1146A | B | | | 160952 | W069.9 | 1147 | 1636 | 1817 | 1147A | B |
| 1147 | 1730 | 1816 | 1147A | B | | | 175709 | W096.7 | 1148 | 1822 | 2004 | 1148A | B |
| 1148 | 1917 | 2003 | 1148A | B | | | 194426 | W123.5 | 1149 | 2008 | 2146 | 1149A | B |
| 1149 | 2105 | 2146 | 1149A | B | | | 213142 | W150.4 | 1150 | 2151 | 2350 | 1153R | A |
| 1150 | 2252 | 2341 | 1153R | A | | | 231859 | W177.2 | | | | | |
| **NIGHTTIME THIR** | | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 1137 | 0036 | 0124 | 1139R | A | | | 005755 | W021.9 | | 0035 | 0229 | 1139R | A |
| 1138 | 0213 | 0229 | 1139R | A | | | 024512 | W048.8 | | 0222 | 0418 | 1139R | B |
| 1138 | 0223 | 0312 | 1139R | B | | | | | | 0423 | 0604 | 1140R | B |
| 1139 | 0400 | 0417 | 1139R | B | | | 043229 | W075.6 | | 0610 | 0746 | 1141A | B |
| 1139 | 0423 | 0459 | 1140R | B | | | | | | 0750 | 0930 | 1142A | B |
| 1140 | 0548 | 0604 | 1140R | B | | | 061945 | W102.4 | | 0935 | 1115 | 1143A | B |
| 1140 | 0610 | 0646 | 1141A | B | | | | | | 1120 | 1302 | 1144A | B |
| 1141 | 0735 | 0745 | 1141A | B | | | 080702 | W129.2 | | 1308 | 1449 | 1145A | B |
| 1141 | 0750 | 0834 | 1142A | B | 1W | | | | | 1454 | 1632 | 1146A | B |
| 1142 | 0922 | 0929 | 1142A | B | 1W | | 095418 | W156.0 | | 1636 | 1817 | 1147A | B |
| 1142 | 0935 | 1017 | 1143A | B | | | | | | 1822 | 2004 | 1148A | B |
| 1143 | 1120 | 1208 | 1144A | B | | | 114135 | E177.2 | | 2009 | 2146 | 1149A | B |
| 1144 | 1308 | 1355 | 1145A | B | | | 132851 | E150.4 | | 2151 | 2350 | 1153R | A |
| 1145 | 1454 | 1543 | 1146A | B | | | 151608 | E123.5 | | | | | |
| 1146 | 1637 | 1730 | 1147A | B | | | 170325 | E096.7 | | | | | |
| 1147 | 1821 | 1917 | 1148A | B | | | 185041 | E069.9 | | | | | |
| 1148 | 2009 | 2105 | 1149A | B | | | 203758 | E043.1 | | | | | |
| 1149 | 2153 | 2252 | 1153R | A | | | 222514 | E016.3 | | | | | |
| 1150 | 2341 | 2349 | 1153R | A | | | 001231 | W010.6 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 7 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 1151 | | | | | | 010615 | E156.0 | 1153 | 0326 | 0517 | 1153R | B |
| 1152 | | | | | | 025332 | E129.2 | 1154 | 0524 | 0705 | 1154R | B |
| 1153 | 0414 | 0502 | 1153R | B | | 044048 | E102.4 | 1155 | 0711 | 0845 | 1155A | B |
| 1154 | 0601 | 0650 | 1154R | B | 1E | 062805 | E075.5 | 1156 | 0850 | 1031 | 1156A | B |
| 1155 | 0748 | 0837 | 1155A | B | | 081521 | E048.7 | 1157 | 1036 | 1217 | 1157A | B |
| 1156 | 0936 | 1024 | 1156A | B | | 100238 | E021.9 | 1158 | 1222 | 1405 | 1158A | B |
| 1157 | 1123 | 1212 | 1157A | B | | 114954 | W004.9 | 1159 | 1410 | 1550 | 1159A | B |
| 1158 | 1310 | 1359 | 1158A | B | | 133711 | W031.7 | 1160 | 1555 | 1733 | 1160A | B |
| 1159 | 1457 | 1546 | 1159A | B | | 152428 | W058.6 | 1161 | 1738 | 1916 | 1161A | B |
| 1160 | 1645 | 1732 | 1160A | B | | 171144 | W085.4 | 1162 | 1921 | 2103 | 1162A | B |
| 1161 | 1832 | 1915 | 1161A | B | | 185901 | W112.2 | 1163 | 2108 | 2250 | 1163A | B |
| 1162 | 2019 | 2102 | 1162A | B | 1E | 204617 | W139.0 | | | | | |
| 1163 | 2207 | 2249 | 1163A | B | | 223334 | W165.9 | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 1151 | | | | | | 015947 | W037.4 | 0326 | 0518 | 1153R | B | |
| 1152 | 0327 | 0414 | 1153R | B | | 034704 | W064.2 | 0523 | 0705 | 1154R | B | |
| 1153 | 0502 | 0517 | 1153R | B | | 053420 | W091.0 | 0711 | 0845 | 1155A | B | |
| 1153 | 0523 | 0601 | 1154R | B | 1W | | | 0850 | 1031 | 1156A | B | |
| 1154 | 0650 | 0704 | 1154R | B | 1W | 072137 | W117.8 | 1036 | 1217 | 1157A | B | |
| 1154 | 0712 | 0748 | 1155A | B | | | | 1222 | 1405 | 1158A | B | |
| 1155 | 0837 | 0844 | 1155A | B | | 090854 | W144.7 | 1410 | 1550 | 1159A | B | |
| 1155 | 0850 | 0936 | 1156A | B | | | | 1555 | 1733 | 1160A | B | |
| 1156 | 1024 | 1030 | 1156A | B | | 105610 | W171.5 | 1738 | 1916 | 1161A | B | |
| 1156 | 1036 | 1123 | 1157A | B | | | | 1921 | 2102 | 1162A | B | |
| 1157 | 1222 | 1310 | 1158A | B | | 124327 | E161.7 | 2108 | 2250 | 1163A | B | |
| 1158 | 1359 | 1405 | 1158A | B | | 143043 | E134.9 | | | | | |
| 1158 | 1410 | 1457 | 1159A | B | | | | | | | | |
| 1159 | 1555 | 1645 | 1160A | B | | 161800 | E108.1 | | | | | |
| 1160 | 1738 | 1832 | 1161A | B | | 180516 | E081.2 | | | | | |
| 1161 | 1921 | 2019 | 1162A | B | 1W | 195233 | E054.4 | | | | | |
| 1162 | 2108 | 2207 | 1163A | B | | 213950 | E027.6 | | | | | |
| 1163 | | | | | | 232706 | E000.8 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 8 MARCH 1973

| THIR | | | | | | | ASC. AND DESC. NODE | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | | TIME | LONG | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | | HRMNSS | DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| | DAYTIME THIR | | | | | | ASC. NODE | | | | | | |
| 1164 | | | | | | | 002050 | E167.4 | 1165 | 0053 | 0245 | 1166R | A |
| 1165 | 0141 | 0230 | 1166R | A | | | 020807 | E140.6 | 1166 | 0240 | 0434 | 1166R | B |
| 1166 | 0328 | 0417 | 1166R | B | | | 035523 | E113.7 | 1167 | 0440 | 0621 | 1167R | B |
| 1167 | 0516 | 0604 | 1167R | B | | | 054240 | E086.9 | 1168 | 0634 | 0803 | 1168A | B |
| 1168 | 0703 | 0752 | 1168A | B | | | 072957 | E060.1 | 1169 | 0807 | 0946 | 1169A | B |
| 1169 | 0850 | 0939 | 1169A | B | | 1E | 091713 | E033.3 | 1170 | 0951 | 1134 | 1170A | B |
| 1170 | 1038 | 1126 | 1170A | B | | | 110430 | E006.5 | 1171 | 1139 | 1321 | 1171A | B |
| 1171 | 1225 | 1314 | 1171A | B | | | 125146 | W020.4 | 1172 | 1326 | 1506 | 1172A | B |
| 1172 | 1412 | 1501 | 1172A | B | | | 143903 | W047.2 | 1173 | 1511 | 1646 | 1173A | B |
| 1173 | 1559 | 1647 | 1173A | B | | | 162619 | W074.0 | 1174 | 1652 | 1832 | 1174A | B |
| 1174 | 1747 | 1831 | 1174A | B | | | 181336 | W100.8 | 1175 | 1838 | 2019 | 1175A | B |
| 1175 | 1934 | 2018 | 1175A | B | | | 200052 | W127.6 | 1176 | 2024 | 2206 | 1176A | B |
| 1176 | 2121 | 2205 | 1176A | B | | | 214809 | W154.5 | 1177 | 2206 | 0007 | 1180R | A |
| 1177 | 2309 | 2357 | 1180R | A | | | 233526 | E178.7 | | | | | |
| | NIGHTTIME THIR | | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 1164 | 0053 | 0141 | 1166R | A | | | 011423 | W026.1 | 0053 | 0245 | 1166R | A | |
| 1165 | 0230 | 0245 | 1166R | A | | | 030139 | W052.9 | 0239 | 0434 | 1166R | B | |
| 1165 | 0240 | 0328 | 1166R | B | | | | | 0440 | 0621 | 1167R | B | |
| 1166 | 0417 | 0433 | 1166R | B | | | 044856 | W079.7 | 0627 | 0802 | 1168A | B | |
| 1166 | 0440 | 0516 | 1167R | B | | | | | 0807 | 0946 | 1169A | B | |
| 1167 | 0604 | 0622 | 1167R | B | | | 063612 | W106.5 | 0951 | 1134 | 1170A | B | |
| 1167 | 0627 | 0703 | 1168A | B | | | | | 1139 | 1321 | 1171A | B | |
| 1168 | 0752 | 0801 | 1168A | B | | | 082329 | W133.3 | 1326 | 1506 | 1172A | B | |
| 1168 | 0807 | 0850 | 1169A | B | | 1W | | | 1511 | 1646 | 1173A | B | |
| 1169 | 0939 | 0945 | 1169A | B | | 1W | 101045 | W160.2 | 1652 | 1832 | 1174A | B | |
| 1169 | 0951 | 1038 | 1170A | B | | | | | 1838 | 2019 | 1175A | B | |
| 1170 | 1126 | 1132 | 1170A | B | | | 115802 | E173.1 | 2024 | 2206 | 1176A | B | |
| 1170 | 1139 | 1225 | 1171A | B | | | | | 2206 | 0006 | 1180R | A | |
| 1171 | 1314 | 1320 | 1171A | B | | | 134519 | E146.3 | | | | | |
| 1171 | 1326 | 1412 | 1172A | B | | | | | | | | | |
| 1172 | 1511 | 1559 | 1173A | B | | | 153235 | E119.4 | | | | | |
| 1173 | 1652 | 1747 | 1174A | B | | | 171952 | E092.6 | | | | | |
| 1174 | 1838 | 1934 | 1175A | B | | | 190708 | E065.8 | | | | | |
| 1175 | 2024 | 2121 | 1176A | B | | | 205425 | E039.0 | | | | | |
| 1176 | 2210 | 2309 | 1180R | A | | | 224141 | E012.1 | | | | | |
| 1177 | 2357 | 0006 | 1180R | A | | | 002858 | W014.7 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 9 MARCH 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 1178 | | | | | | 012242 | E151.9 | 1179 | 0153 | 0352 | 1179R | B |
| 1179 | 0243 | 0332 | 1179R | B | | 030959 | E125.1 | 1180 | 0358 | 0532 | 1180R | B |
| 1180 | 0430 | 0519 | 1180R | B | | 045715 | E098.2 | 1181 | | | | |
| 1181 | | | | | | 064432 | E071.4 | 1182 | 0728 | 0902 | 1182A | B |
| 1182 | 0805 | 0854 | 1182A | B | | 083148 | E044.6 | 1183 | 0907 | 1048 | 1183A | B |
| 1183 | 0952 | 1041 | 1183A | B | | 101905 | E017.8 | 1184 | 1053 | 1234 | 1184A | B |
| 1184 | 1140 | 1228 | 1184A | B | | 120621 | W009.0 | 1185 | 1239 | 1421 | 1185A | B |
| 1185 | 1327 | 1416 | 1185A | B | | 135338 | W035.9 | 1186 | 1426 | 0605 | 1186A | B |
| 1186 | 1514 | 1603 | 1186A | B | | 154055 | W062.7 | 1187 | 1610 | 1748 | 1187A | B |
| 1187 | 1701 | 1748 | 1187A | B | | 172811 | W089.5 | 1188 | 1753 | 1934 | 1188A | B |
| 1188 | 1849 | 1934 | 1188A | B | | 191528 | W116.3 | 1189 | 1939 | 2118 | 1189A | B |
| 1189 | 2036 | 2117 | 1189A | B | | 210244 | W143.1 | 1190 | 2123 | 2307 | 1190A | B |
| 1190 | 2223 | 2306 | 1190A | B | | 225001 | W170.0 | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 1178 | 0154 | 0243 | 1179R | B | | 021615 | W041.5 | 0154 | 0352 | 1179R | B | |
| 1179 | 0332 | 0351 | 1179R | B | | 040331 | W068.3 | 0358 | 0533 | 1180R | B | |
| 1179 | 0358 | 0430 | 1180R | B | | | | 0728 | 0902 | 1182A | B | |
| 1180 | 0519 | 0533 | 1180R | B | | 055048 | W095.1 | 0907 | 1048 | 1183A | B | |
| 1180 | 0539 | 0617 | 1181R | B | | | | 1053 | 1234 | 1184A | B | |
| 1181 | 0728 | 0805 | 1182A | B | | 073804 | W122.0 | 1239 | 1421 | 1185A | B | |
| 1182 | 0854 | 0901 | 1182A | B | | 092521 | W148.8 | 1426 | 1606 | 1186A | B | |
| 1182 | 0907 | 0952 | 1183A | B | | | | 1610 | 1749 | 1187A | B | |
| 1183 | 1041 | 1047 | 1183A | B | | 111237 | W175.6 | 1753 | 1934 | 1188A | B | |
| 1183 | 1053 | 1140 | 1184A | B | | | | 1939 | 2118 | 1189A | B | |
| 1184 | 1239 | 1327 | 1185A | B | | 125954 | E157.6 | 2123 | 2307 | 1190A | B | |
| 1185 | 1426 | 1514 | 1186A | B | | 144711 | E130.8 | | | | | |
| 1186 | 1611 | 1701 | 1187A | B | | 163427 | E103.9 | | | | | |
| 1187 | 1753 | 1849 | 1188A | B | | 182144 | E077.1 | | | | | |
| 1188 | 1939 | 2036 | 1189A | B | | 200900 | E050.3 | | | | | |
| 1189 | 2125 | 2223 | 1190A | B | | 215617 | E023.5 | | | | | |
| 1190 | | | | | | 234333 | W003.3 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 10 MARCH 1973

| | THIR | | | | | | | ESMR | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | ASC. AND DESC. NODE | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1191 | | | | | | 003717 | E163.2 | 1192 | 0109 | 0300 | 1193R | A |
| 1192 | 0158 | 0247 | 1193R | A | 1N | 022434 | E136.4 | 1193 | 0255 | 0450 | 1193R | B |
| 1193 | 0345 | 0434 | 1193R | B | 1N | 041150 | E109.6 | 1194 | 0455 | 0638 | 1194R | B |
| 1194 | 0532 | 0621 | 1194R | B | | 055907 | E082.8 | 1195 | 0643 | 0818 | 1195A | B |
| 1195 | 0720 | 0808 | 1195A | B | | 074624 | E056.0 | 1196 | 0822 | 1004 | 1196A | B |
| 1196 | 0907 | 0956 | 1196A | B | | 093340 | E029.2 | 1197 | 1009 | 1128 | 1197A | B |
| 1197 | 1054 | 1143 | 1197A | B | | 112057 | E002.3 | 1198 | 1154 | 1334 | 1198A | B |
| 1198 | 1241 | 1330 | 1198A | B | | 130813 | W024.5 | 1199 | 1339 | 1520 | 1199A | B |
| 1199 | 1429 | 1518 | 1199A | B | | 145530 | W051.3 | 1200 | 1525 | 1702 | 1200A | B |
| 1200 | 1616 | 1701 | 1200A | B | | 164246 | W078.1 | 1201 | 1707 | 1846 | 1201A | B |
| 1201 | 1803 | 1845 | 1201A | B | | 183003 | W105.0 | 1202 | 1852 | 2033 | 1202A | B |
| 1202 | 1951 | 2032 | 1202A | B | | 201719 | W131.8 | 1203 | 2038 | 2223 | 1203A | B |
| 1203 | 2138 | 2223 | 1203A | B | | 220436 | W158.6 | 1204 | 2223 | 0023 | 1207R | A |
| 1204 | 2325 | 0014 | 1207R | A | | 235153 | E174.6 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1191 | 0110 | 0158 | 1193R | A | 1S | 013050 | W030.2 | | 0109 | 0300 | 1193R | B |
| 1192 | 0247 | 0300 | 1193R | A | 1S | 031806 | W057.0 | | 0255 | 0450 | 1193R | A |
| 1192 | 0256 | 0345 | 1193R | B | 1S | | | | 0455 | 0638 | 1194R | B |
| 1193 | 0434 | 0449 | 1193R | B | 1S | 050523 | W083.8 | | 0643 | 0817 | 1195A | B |
| 1193 | 0455 | 0532 | 1194R | B | | | | | 0822 | 1003 | 1196A | B |
| 1194 | 0621 | 0638 | 1194R | B | | 065240 | W110.6 | | 1009 | 1138 | 1197A | B |
| 1194 | 0644 | 0720 | 1195A | B | | | | | 1154 | 1334 | 1198A | B |
| 1195 | 0808 | 0817 | 1195A | B | | 083956 | W137.4 | | 1340 | 1520 | 1199A | B |
| 1195 | 0822 | 0907 | 1196A | B | | | | | 1525 | 1702 | 1200A | B |
| 1196 | 0956 | 1003 | 1196A | B | | 102713 | W164.3 | | 1707 | 1846 | 1201A | B |
| 1196 | 1009 | 1054 | 1197A | B | | | | | 1852 | 2033 | 1202A | B |
| 1197 | 1154 | 1241 | 1198A | B | | 121429 | E169.0 | | 2038 | 2223 | 1203A | B |
| 1198 | 1340 | 1429 | 1199A | B | | 140146 | E142.1 | | 2223 | 0023 | 1207R | A |
| 1199 | 1525 | 1616 | 1200A | B | | 154902 | W115.3 | | | | | |
| 1200 | 1707 | 1803 | 1201A | B | | 173619 | E088.5 | | | | | |
| 1201 | 1852 | 1951 | 1202A | B | | 192336 | E061.7 | | | | | |
| 1202 | 2039 | 2138 | 1203A | B | | 211052 | E034.9 | | | | | |
| 1203 | 2227 | 2325 | 1207R | A | | 225809 | E008.0 | | | | | |
| 1204 | 0014 | 0022 | 1207R | A | | 004525 | W018.8 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 11 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1205 | | | | | | 013909 | E147.8 | | | | | |
| 1206 | 0300 | 0349 | 1206R | B | 1N1E | 032626 | E121.0 | 1206 | 0209 | 0407 | 1206R | B |
| 1207 | 0447 | 0536 | 1207R | B | | 051342 | E094.1 | 1207 | 0412 | 0552 | 1207R | B |
| 1208 | 0634 | 0723 | 1208A | B | | 070059 | E067.3 | 1208 | 0557 | 0733 | 1208A | B |
| 1209 | 0822 | 0910 | 1209A | B | | 084815 | E040.5 | 1209 | 0737 | 0919 | 1209A | B |
| 1210 | 1009 | 1058 | 1210A | B | | 103532 | E013.7 | 1210 | 0924 | 1105 | 1210A | B |
| 1211 | 1156 | 1245 | 1211A | B | | 122248 | W013.1 | 1211 | 1111 | 1251 | 1211A | B |
| 1212 | 1343 | 1432 | 1212A | B | | 141005 | W040.0 | 1212 | 1257 | 1435 | 1212A | B |
| 1213 | 1531 | 1619 | 1213A | B | | 155722 | W066.8 | 1213 | 1440 | 1619 | 1213A | B |
| 1214 | 1718 | 1804 | 1214A | B | | 174438 | W093.6 | 1214 | 1625 | 1805 | 1214A | B |
| 1215 | 1905 | 1948 | 1215A | B | | 193155 | W120.4 | 1215 | 1810 | 1949 | 1215A | B |
| 1216 | 2053 | 2134 | 1216A | B | | 211911 | W147.2 | 1216 | 1954 | 2134 | 1216A | B |
| 1217 | | | | | | 230628 | W174.1 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1205 | 0210 | 0300 | 1206R | B | 1S1W | 023242 | W045.6 | | | | | |
| 1206 | 0349 | 0406 | 1206R | B | 1S1W | 041958 | W072.4 | | 0209 | 0406 | 1206R | B |
| 1206 | 0412 | 0447 | 1207R | B | | | | | 0412 | 0552 | 1207R | B |
| 1207 | 0536 | 0551 | 1207R | B | | 060715 | W099.2 | | 0557 | 0733 | 1208A | B |
| 1207 | 0557 | 0634 | 1208A | B | | | | | 0733 | 0919 | 1209A | B |
| 1208 | 0723 | 0732 | 1208A | B | | 075431 | W126.1 | | 0925 | 1105 | 1210A | B |
| 1208 | 0738 | 0822 | 1209A | B | | | | | 1111 | 1251 | 1211A | B |
| 1209 | 0910 | 0918 | 1209A | B | | 094148 | W152.9 | | 1257 | 1435 | 1212A | B |
| 1209 | 0925 | 1009 | 1210A | B | | | | | 1440 | 1620 | 1213A | B |
| 1210 | 1058 | 1105 | 1210A | B | | 112905 | W179.7 | | 1625 | 1805 | 1214A | B |
| 1210 | 1111 | 1156 | 1211A | B | | | | | 1810 | 1949 | 1215A | B |
| 1211 | 1245 | 1251 | 1211A | B | | 131621 | E153.5 | | 1954 | 2134 | 1216A | B |
| 1211 | 1257 | 1343 | 1212A | B | | | | | | | | |
| 1212 | 1441 | 1531 | 1213A | B | | 150338 | E126.6 | | | | | |
| 1213 | 1625 | 1718 | 1214A | B | | 165054 | E099.8 | | | | | |
| 1214 | 1810 | 1905 | 1215A | B | | 183811 | E073.0 | | | | | |
| 1215 | 1955 | 2053 | 1216A | B | | 202527 | E046.2 | | | | | |
| 1216 | | | | | | 221244 | E019.4 | | | | | |
| 1217 | | | | | | 000001 | W007.5 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 12 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | ASC. AND DESC. NODE | | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 1218 | | | | | | 005344 | E159.1 | 1219 | 0124 | 0314 | 1220R | A |
| 1219 | 0214 | 0303 | 1220R | A | 1N | 024101 | E132.3 | 1220 | 0312 | 0504 | 1220R | B |
| 1220 | 0402 | 0451 | 1220R | B | | 042817 | E105.5 | 1221 | 0511 | 0654 | 1221R | B |
| 1221 | 0549 | 0638 | 1221R | B | | 061534 | E078.7 | 1222 | 0659 | 0835 | 1222A | B |
| 1222 | 0736 | 0825 | 1222A | B | | 080250 | E051.9 | 1223 | 0839 | 1019 | 1223A | B |
| 1223 | 0924 | 1012 | 1223A | B | | 095007 | E025.1 | 1224 | 1024 | 1205 | 1224A | B |
| 1224 | 1111 | 1200 | 1224A | B | | 113724 | W001.8 | 1225 | 1210 | 1351 | 1225A | B |
| 1225 | 1258 | 1347 | 1225A | B | | 132440 | W028.6 | 1226 | 1357 | 1536 | 1226A | B |
| 1226 | 1445 | 1534 | 1226A | B | | 151157 | W055.4 | 1227 | 1541 | 1720 | 1227A | B |
| 1227 | 1633 | 1719 | 1227A | B | | 165913 | W082.2 | 1228 | 1726 | 1902 | 1228A | B |
| 1228 | 1820 | 1901 | 1228A | B | | 184630 | W109.1 | 1229 | 1907 | 2049 | 1229A | B |
| 1229 | 2007 | 2048 | 1229A | B | | 203346 | W135.9 | 1230 | 2054 | 2239 | 1230A | B |
| 1230 | 2155 | 2239 | 1230A | B | | 222103 | W162.7 | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 1218 | 0125 | 0214 | 1220R | A | 1S | 014717 | W034.3 | 0125 | 0314 | 1220R | A | |
| 1219 | 0303 | 0314 | 1220R | A | 1S | 033434 | W061.1 | 0313 | 0505 | 1220R | B | |
| 1219 | 0313 | 0402 | 1220R | B | | | | 0510 | 0654 | 1221R | B | |
| 1220 | 0451 | 0504 | 1220R | B | | 052150 | W087.9 | 0659 | 0835 | 1222A | B | |
| 1220 | 0510 | 0549 | 1221R | B | | | | 0839 | 1019 | 1223A | B | |
| 1221 | 0638 | 0653 | 1221R | B | | 070907 | W114.7 | 1024 | 1206 | 1224A | B | |
| 1221 | 0700 | 0736 | 1222A | B | | | | 1210 | 1351 | 1225A | B | |
| 1222 | 0825 | 0834 | 1222A | B | | 085623 | W141.5 | 1357 | 1536 | 1226A | B | |
| 1222 | 0840 | 0924 | 1223A | B | | | | 1541 | 1720 | 1227A | B | |
| 1223 | 1012 | 1018 | 1223A | B | | 104340 | W168.4 | 1726 | 1902 | 1228A | B | |
| 1223 | 1024 | 1111 | 1224A | B | | | | 1907 | 2049 | 1229A | B | |
| 1224 | 1210 | 1258 | 1225A | B | | 123056 | E164.8 | 2055 | 2240 | 1230A | B | |
| 1225 | 1357 | 1445 | 1226A | B | | 141813 | E138.0 | 2239 | 0038 | 1233R | A | |
| 1226 | 1541 | 1633 | 1227A | B | | 160530 | E111.2 | | | | | |
| 1227 | 1726 | 1820 | 1228A | B | | 175246 | E084.4 | | | | | |
| 1228 | 1909 | 2007 | 1229A | B | | 194003 | E057.6 | | | | | |
| 1229 | 2056 | 2155 | 1230A | B | | 212719 | E030.7 | | | | | |
| 1230 | 2243 | 2342 | 1233R | A | 1W | 231436 | E003.9 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 13 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1231 | 2342 | 0031 | 1233R | A | 1E | 000819 | E170.5 | 1231 | 2240 | 0039 | 1233R | A |
| 1232 | | | | | | 015536 | E143.7 | 1233 | 0226 | 0420 | 1233R | B |
| 1233 | 0316 | 0405 | 1233R | B | | 034253 | E116.8 | 1234 | 0427 | 0608 | 1234R | B |
| 1234 | 0504 | 0553 | 1234R | B | | 053009 | E090.0 | 1235 | 0613 | 0749 | 1235A | B |
| 1235 | 0651 | 0740 | 1235A | B | | 071726 | E063.2 | 1236 | 0754 | 0934 | 1236A | B |
| 1236 | 0838 | 0927 | 1236A | B | 1E | 090442 | E036.4 | 1237 | 0939 | 1120 | 1237A | B |
| 1237 | 1026 | 1114 | 1237A | B | 2S | 105159 | E009.6 | 1238 | 1125 | 1305 | 1238A | B |
| 1238 | 1213 | 1302 | 1238A | B | | 123915 | W017.3 | 1239 | 1312 | 1452 | 1239A | B |
| 1239 | 1400 | 1449 | 1239A | B | | 142632 | W044.1 | 1240 | 1457 | 1634 | 1240A | B |
| 1240 | 1547 | 1633 | 1240A | B | | 161348 | W070.9 | 1241 | 1639 | 1821 | 1241A | B |
| 1241 | 1735 | 1820 | 1241A | B | 1E | 180105 | W097.7 | 1242 | 1826 | 2007 | 1242A | B |
| 1242 | 1922 | 2006 | 1242A | B | | 194822 | W124.5 | 1243 | 2013 | 2155 | 1243A | B |
| 1243 | 2109 | 2154 | 1243A | B | | 213538 | W151.4 | 1244 | 2154 | 2356 | 1244A | A |
| 1244 | 2257 | 2345 | 1247R | A | | 232255 | W178.2 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 1231 | 0031 | 0038 | 1233R | A | 1W | 010152 | W022.9 | 0226 | 0421 | 1233R | B | |
| 1232 | 0226 | 0316 | 1233R | B | | 024909 | W049.7 | 0427 | 0608 | 1234R | B | |
| 1233 | 0405 | 0420 | 1233R | B | | 043626 | W076.5 | 0613 | 0749 | 1235A | B | |
| 1233 | 0427 | 0504 | 1234R | B | | | | 0754 | 0934 | 1236A | B | |
| 1234 | 0553 | 0608 | 1234R | B | | 062342 | W103.4 | 0939 | 1119 | 1237A | B | |
| 1234 | 0613 | 0651 | 1235A | B | | | | 1124 | 1305 | 1238A | B | |
| 1235 | 0740 | 0748 | 1235A | B | | 081059 | W130.2 | 1311 | 1452 | 1239A | B | |
| 1235 | 0754 | 0838 | 1236A | B | 1W | | | 1457 | 1634 | 1240A | B | |
| 1236 | 0927 | 0934 | 1236A | B | 1W | 095815 | W157.0 | 1639 | 1821 | 1241A | B | |
| 1236 | 0938 | 1026 | 1237A | B | 2N | | | 1826 | 2007 | 1242A | B | |
| 1237 | 1125 | 1213 | 1238A | B | | 114532 | E176.2 | 2013 | 2155 | 1243A | B | |
| 1238 | 1312 | 1400 | 1239A | B | | 133248 | E149.4 | 2155 | 2355 | 1247R | A | |
| 1239 | 1457 | 1547 | 1240A | B | | 152005 | E122.5 | | | | | |
| 1240 | 1640 | 1735 | 1241A | B | 1W | 170722 | E095.7 | | | | | |
| 1241 | 1826 | 1922 | 1242A | B | | 185438 | E068.9 | | | | | |
| 1242 | 2013 | 2109 | 1243A | B | | 204155 | E042.1 | | | | | |
| 1243 | 2158 | 2257 | 1247R | A | | 222911 | E015.3 | | | | | |
| 1244 | 2345 | 2355 | 1247R | A | | 001628 | W011.6 | | | | | |

# TABLE 2-2
## DATA AVAILABILITY ON-OFF TIMES
## 14 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1245 | | | | | | 011011 | E155.0 | 1247 | 0431 | 0523 | 1247R | B |
| 1246 | | | | | | 025728 | E128.2 | 1248 | 0528 | 0710 | 1248R | B |
| 1247 | 0418 | 0507 | 1247R | B | | 044444 | E101.4 | 1249 | 0715 | 0851 | 1249A | B |
| 1248 | 0606 | 0655 | 1248R | B | | 063201 | E074.5 | 1250 | 0856 | 1037 | 1250A | B |
| 1249 | 0753 | 0842 | 1249A | B | | 081917 | E047.7 | 1251 | 1041 | 1222 | 1251A | B |
| 1250 | 0940 | 1029 | 1250A | B | 1S | 100634 | E020.9 | 1252 | 1227 | 1407 | 1252A | B |
| 1251 | 1128 | 1216 | 1251A | B | | 115350 | W005.9 | 1253 | 1412 | 1552 | 1253A | B |
| 1252 | 1315 | 1404 | 1252A | B | | 134107 | W032.7 | 1254 | 1557 | 1735 | 1254A | B |
| 1253 | 1502 | 1550 | 1253A | B | | 152824 | W059.6 | 1255 | 1742 | 1921 | 1255A | B |
| 1254 | 1649 | 1736 | 1254A | B | | 171540 | W086.4 | 1256 | 1926 | 2108 | 1256A | B |
| 1255 | 1837 | 1920 | 1255A | B | | 190257 | W113.2 | 1257 | 2113 | 2253 | 1257A | B |
| 1256 | 2024 | 2104 | 1256A | B | | 205013 | W140.0 | | | | | |
| 1257 | 2211 | 2252 | 1257A | B | | 223730 | W166.8 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1245 | | | | | | 020344 | W038.4 | | 0331 | 0522 | 1247R | B |
| 1246 | 0332 | 0418 | 1247R | B | | 035101 | W065.2 | | 0528 | 0710 | 1248R | B |
| 1247 | 0507 | 0522 | 1247R | B | | 053817 | W092.0 | | 0715 | 0851 | 1249A | B |
| 1247 | 0528 | 0606 | 1248R | B | | | | | 0856 | 1036 | 1250A | B |
| 1248 | 0655 | 0710 | 1248R | B | | 072534 | W118.9 | | 1041 | 1222 | 1251A | B |
| 1248 | 0715 | 0753 | 1249A | B | | | | | 1227 | 1407 | 1252A | B |
| 1249 | 0842 | 0851 | 1249A | B | | 091251 | W145.7 | | 1412 | 1551 | 1253A | B |
| 1249 | 0856 | 0940 | 1250A | B | 1N | | | | 1557 | 1734 | 1254A | B |
| 1250 | 1029 | 1035 | 1250A | B | 1N | 110007 | W172.5 | | 1742 | 1921 | 1255A | B |
| 1250 | 1041 | 1128 | 1251A | B | | | | | 1926 | 2108 | 1256A | B |
| 1251 | 1227 | 1315 | 1252A | B | | 124724 | E160.7 | | 2113 | 2253 | 1257A | B |
| 1252 | 1412 | 1502 | 1253A | B | | 143440 | E133.9 | | | | | |
| 1253 | 1557 | 1649 | 1254A | B | | 162157 | E107.1 | | | | | |
| 1254 | 1742 | 1837 | 1255A | B | | 180913 | E080.3 | | | | | |
| 1255 | 1927 | 2024 | 1256A | B | | 195630 | E053.5 | | | | | |
| 1256 | 2113 | 2211 | 1257A | B | | 214347 | E026.6 | | | | | |
| 1257 | | | | | | 233103 | W000.2 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 15 MARCH 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1258 | | | | | | 002446 | E166.4 | 1259 | 0056 | 0248 | 1260R | A |
| 1259 | 0146 | 0235 | 1260R | A | 1N | 021203 | E139.6 | 1260 | 0249 | 0434 | 1260R | B |
| 1260 | 0333 | 0422 | 1260R | B | | 035920 | E112.7 | 1261 | 0444 | 0624 | 1261R | B |
| 1261 | 0520 | 0609 | 1261R | B | | 054636 | E085.9 | 1262 | 0629 | 0806 | 1262A | B |
| 1262 | 0708 | 0756 | 1262A | B | | 073353 | E059.1 | 1263 | 0811 | 0953 | 1263A | B |
| 1263 | 0855 | 0944 | 1263A | B | | 092109 | E032.3 | 1264 | 0957 | 1139 | 1264A | B |
| 1264 | 1042 | 1131 | 1264A | B | | 110826 | E005.5 | 1265 | 1144 | 1327 | 1265A | B |
| 1265 | 1230 | 1318 | 1265A | B | | 125542 | W021.4 | 1266 | 1332 | 1508 | 1266A | B |
| 1266 | 1417 | 1506 | 1266A | B | | 144259 | W048.2 | 1267 | 1513 | 1651 | 1267A | B |
| 1267 | 1604 | 1650 | 1267A | B | | 163015 | W075.0 | 1268 | 1656 | 1836 | 1268A | B |
| 1268 | 1751 | 1835 | 1268A | B | | 181732 | W101.8 | 1269 | 1842 | 2020 | 1269A | B |
| 1269 | 1939 | 2020 | 1269A | B | | 200448 | W128.6 | 1270 | 2026 | 2210 | 1270A | B |
| 1270 | 2126 | 2209 | 1270A | B | | 215205 | W155.5 | 1271 | 2210 | 0009 | 1274R | A |
| 1271 | 2313 | 0002 | 1274R | A | | 233921 | E177.7 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1258 | 0056 | 0146 | 1260R | A | 1S | 011820 | W027.0 | | 0055 | 0248 | 1260R | A |
| 1259 | 0235 | 0248 | 1260R | A | 1S | 030536 | W053.8 | | 0243 | 0434 | 1260R | B |
| 1259 | 0243 | 0333 | 1260R | B | | | | | 0444 | 0624 | 1261R | B |
| 1260 | 0422 | 0435 | 1260R | B | | 045253 | W080.7 | | 0629 | 0806 | 1262A | B |
| 1260 | 0444 | 0520 | 1261R | B | | | | | 0811 | 0952 | 1263A | B |
| 1261 | 0609 | 0624 | 1261R | B | | 064009 | W107.5 | | 0957 | 1139 | 1264A | B |
| 1261 | 0629 | 0708 | 1262A | B | | | | | 1144 | 1327 | 1265A | B |
| 1262 | 0756 | 0805 | 1262A | B | | 082726 | W134.3 | | 1332 | 1508 | 1266A | B |
| 1262 | 0811 | 0855 | 1263A | B | | | | | 1514 | 1651 | 1267A | B |
| 1263 | 0944 | 0951 | 1263A | B | | 101442 | W161.1 | | 1656 | 1836 | 1268A | B |
| 1263 | 0957 | 1042 | 1264A | B | | | | | 1842 | 2020 | 1269A | B |
| 1264 | 1131 | 1138 | 1264A | B | | 120159 | E172.1 | | 2026 | 2210 | 1270A | B |
| 1264 | 1144 | 1230 | 1265A | B | | | | | 2211 | 0009 | 1274R | A |
| 1265 | 1318 | 1326 | 1265A | B | | 134916 | E145.2 | | | | | |
| 1265 | 1332 | 1417 | 1266A | B | | | | | | | | |
| 1266 | 1514 | 1604 | 1267A | B | | 153632 | E118.4 | | | | | |
| 1267 | 1656 | 1751 | 1268A | B | | 172349 | E091.6 | | | | | |
| 1268 | 1842 | 1939 | 1269A | B | | 191105 | E064.8 | | | | | |
| 1269 | 2027 | 2126 | 1270A | B | | 205822 | E038.0 | | | | | |
| 1270 | 2215 | 2313 | 1274R | A | | 224538 | E011.1 | | | | | |
| 1271 | 0002 | 0009 | 1274R | A | | 003255 | W015.7 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 16 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D R | THIR GRID CORR | ASC. AND DESC. NODE | | | | | INT ORBIT | H D R |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | S | LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1272 | | | | | | 012638 | E150.9 | 1273 | 0208 | 0328 | 1273R | B |
| 1273 | 0248 | 0326 | 1273R | B | 1N1E | 031355 | E124.1 | 1274 | 0358 | 0508 | 1274R | B |
| 1274 | 0435 | 0507 | 1274R | B | | 050111 | E097.3 | 1275 | 0544 | 0720 | 1275A | B |
| 1275 | 0622 | 0711 | 1275A | B | | 064828 | E070.4 | 1276 | 0725 | 0908 | 1276A | B |
| 1276 | 0810 | 0858 | 1276A | B | | 083544 | E043.6 | 1277 | 0913 | 1054 | 1277A | B |
| 1277 | 0957 | 1046 | 1277A | B | | 102301 | E016.8 | 1278 | 1059 | 1239 | 1278A | B |
| 1278 | 1144 | 1233 | 1278A | B | | 121017 | W010.0 | 1279 | 1243 | 1424 | 1279A | B |
| 1279 | 1332 | 1420 | 1279A | B | | 135734 | W036.9 | 1280 | 1429 | 1608 | 1280A | B |
| 1280 | 1519 | 1608 | 1280A | B | | 154450 | W063.7 | 1281 | 1613 | 1752 | 1281A | B |
| 1281 | 1706 | 1753 | 1281A | B | | 173207 | W090.5 | 1282 | 1759 | 1937 | 1282A | B |
| 1282 | 1853 | 1935 | 1282A | B | | 191924 | W117.3 | 1283 | 1941 | 2122 | 1283A | B |
| 1283 | 2041 | 2121 | 1283A | B | | 210640 | W144.1 | 1284 | 2127 | 2310 | 1284A | B |
| 1284 | 2228 | 2309 | 1284A | B | | 225357 | W170.9 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1272 | 0209 | 0248 | 1273R | B | 1S1W | 022011 | W042.5 | | 0209 | 0327 | 1273R | B |
| 1273 | 0358 | 0435 | 1274R | B | | 040728 | W069.3 | | 0358 | 0508 | 1274R | B |
| 1274 | 0541 | 0622 | 1275A | B | | 055445 | W096.1 | | 0541 | 0720 | 1275A | B |
| 1275 | 0711 | 0719 | 1275A | B | | 074201 | W122.9 | | 0725 | 0908 | 1276A | B |
| 1275 | 0725 | 0810 | 1276A | B | | | | | 0913 | 1054 | 1277A | B |
| 1276 | 0858 | 0907 | 1276A | B | | 092918 | W149.7 | | 1059 | 1239 | 1278A | B |
| 1276 | 0913 | 0957 | 1277A | B | | | | | 1244 | 1424 | 1279A | B |
| 1277 | 1046 | 1053 | 1277A | B | | 111634 | W176.6 | | 1429 | 1608 | 1280A | B |
| 1277 | 1059 | 1144 | 1278A | B | | | | | 1613 | 1752 | 1281A | B |
| 1278 | 1233 | 1238 | 1278A | B | | 130351 | E156.6 | | 1759 | 1937 | 1282A | B |
| 1278 | 1244 | 1332 | 1279A | B | | | | | 1942 | 2122 | 1283A | B |
| 1279 | 1429 | 1519 | 1280A | B | | 145107 | E129.8 | | 2126 | 2310 | 1284A | B |
| 1280 | 1613 | 1706 | 1281A | B | | 163824 | E103.0 | | | | | |
| 1281 | 1759 | 1853 | 1282A | B | | 182541 | E076.2 | | | | | |
| 1282 | 1942 | 2041 | 1283A | B | | 201257 | E049.3 | | | | | |
| 1283 | 2129 | 2228 | 1284A | B | | 220014 | E022.5 | | | | | |
| 1284 | | | | | | 234730 | W004.3 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 17 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | | | DAYTIME THIR | | | ASC. NODE | | | | | | |
| 1285 | | | | | | 004113 | E162.3 | 1286 | 0113 | 0304 | 1287R | A |
| 1286 | 0203 | 0251 | 1287R | A | | 022830 | E135.5 | 1287 | 0308 | 0451 | 1287R | B |
| 1287 | 0350 | 0439 | 1287R | B | 2S | 041546 | E108.6 | 1288 | 0456 | 0638 | 1288R | B |
| 1288 | 0537 | 0626 | 1288R | B | 1E | 060303 | E081.8 | 1289 | 0644 | 0823 | 1289A | B |
| 1289 | 0724 | 0813 | 1289A | B | | 075019 | E055.0 | 1290 | 0828 | 1009 | 1290A | B |
| 1290 | 0912 | 1000 | 1290A | B | | 093736 | E028.2 | 1291 | 1014 | 1154 | 1291A | B |
| 1291 | 1059 | 1148 | 1291A | B | | 112453 | E001.3 | 1292 | 1159 | 1340 | 1292A | B |
| 1292 | 1246 | 1335 | 1292A | B | | 131209 | W025.5 | 1293 | 1345 | 1522 | 1293A | B |
| 1293 | 1434 | 1521 | 1293A | B | | 145926 | W052.3 | 1294 | 1527 | 1708 | 1294A | B |
| 1294 | 1621 | 1707 | 1294A | B | | 164642 | W079.1 | 1295 | 1713 | 1851 | 1295A | B |
| 1295 | 1808 | 1850 | 1295A | B | | 183359 | W105.9 | 1296 | 1856 | 2037 | 1296A | B |
| 1296 | 1955 | 2036 | 1296A | B | | 202115 | W132.8 | 1297 | 2042 | 2225 | 1297A | B |
| 1297 | 2143 | 2224 | 1297A | B | | 220832 | W159.6 | 1298 | 2230 | 0026 | 1301R | A |
| 1298 | 2330 | 0019 | 1301R | A | | 235548 | E173.6 | | | | | |
| | | | NIGHTTIME THIR | | | DESC. NODE | | | | NEMS - SCR - ITPR | | |
| 1285 | 0113 | 0203 | 1287R | A | | 013447 | W031.1 | | 0113 | 0304 | 1287R | A |
| 1286 | 0251 | 0303 | 1287R | A | | 032203 | W057.9 | | 0308 | 0451 | 1287R | B |
| 1286 | 0307 | 0350 | 1287R | B | 2N | | | | 0456 | 0639 | 1288R | B |
| 1287 | 0439 | 0450 | 1287R | B | 2N | 050920 | W084.8 | | 0644 | 0823 | 1289A | B |
| 1287 | 0456 | 0537 | 1288R | B | 1W | | | | 0828 | 1009 | 1290A | B |
| 1288 | 0626 | 0638 | 1288R | B | 1W | 065636 | W111.6 | | 1014 | 1154 | 1291A | B |
| 1288 | 0644 | 0724 | 1289A | B | | | | | 1159 | 1340 | 1292A | B |
| 1289 | 0813 | 0822 | 1289A | B | | 084353 | W138.4 | | 1345 | 1522 | 1293A | B |
| 1289 | 0828 | 0912 | 1290A | B | | | | | 1527 | 1708 | 1294A | B |
| 1290 | 1000 | 1008 | 1290A | B | | 103110 | W165.2 | | 1713 | 1851 | 1295A | B |
| 1290 | 1014 | 1059 | 1291A | B | | | | | 1856 | 2037 | 1296A | B |
| 1291 | 1159 | 1246 | 1292A | B | | 121826 | E168.0 | | 2042 | 2225 | 1297A | B |
| 1292 | 1345 | 1434 | 1293A | B | | 140543 | E141.1 | | 2230 | 0027 | 1301R | A |
| 1293 | 1528 | 1621 | 1294A | B | | 155259 | E114.3 | | | | | |
| 1294 | 1713 | 1808 | 1295A | B | | 174016 | E087.5 | | | | | |
| 1295 | 1857 | 1955 | 1296A | B | | 192732 | E060.7 | | | | | |
| 1296 | 2044 | 2143 | 1297A | B | | 211449 | E033.8 | | | | | |
| 1297 | 2232 | 2330 | 1301R | A | | 230206 | E007.0 | | | | | |
| 1298 | 0019 | 0027 | 1301R | A | | 004922 | W019.8 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 18 MARCH 1973

| THIR | | | | | | ASC. AND DESC. NODE | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1299 | | | | | | 014305 | E146.8 | 1300 | 0223 | 0411 | 1300R | B |
| 1300 | 0305 | 0353 | 1300R | B | | 033021 | E120.0 | 1301 | 0418 | 0458 | 1301R | B |
| 1301 | | | | | | 051738 | E093.2 | 1302 | 0600 | 0738 | 1302A | B |
| 1302 | 0639 | 0728 | 1302A | B | | 070455 | E066.4 | 1303 | 0743 | 0923 | 1303A | B |
| 1303 | 0826 | 0915 | 1303A | B | | 085211 | E039.5 | 1304 | 0928 | 1110 | 1304A | B |
| 1304 | 1014 | 1103 | 1304A | B | | 103928 | E012.7 | 1305 | 1115 | 1256 | 1305A | B |
| 1305 | 1201 | 1250 | 1305A | B | | 122644 | W014.1 | 1306 | 1300 | 1438 | 1306A | B |
| 1306 | 1348 | 1437 | 1306A | B | | 141401 | W040.9 | 1307 | 1443 | 1624 | 1307A | B |
| 1307 | 1536 | 1623 | 1307A | B | | 160117 | W067.8 | 1308 | 1629 | 1808 | 1308A | B |
| 1308 | 1723 | 1806 | 1308A | B | | 174834 | W094.6 | 1309 | 1812 | 1952 | 1309A | B |
| 1309 | 1910 | 1951 | 1309A | B | | 193550 | W121.4 | 1310 | 1957 | 2138 | 1310A | B |
| 1310 | 2057 | 2138 | 1310A | B | | 212307 | W148.2 | | | | | |
| 1311 | | | | | | 231024 | W175.0 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1299 | 0224 | 0305 | 1300R | B | | 023639 | W046.6 | | 0223 | 0411 | 1300A | B |
| 1300 | 0353 | 0411 | 1300R | B | | 042355 | W073.4 | | 0418 | 0458 | 1301R | B |
| 1300 | 0418 | 0452 | 1301R | B | | | | | 0557 | 0738 | 1302A | B |
| 1301 | 0557 | 0639 | 1302A | B | | 061112 | W100.3 | | 0743 | 0923 | 1303A | B |
| 1302 | 0728 | 0737 | 1302A | B | | 075828 | W127.1 | | 0928 | 1110 | 1304A | B |
| 1302 | 0743 | 0826 | 1303A | B | | | | | 1116 | 1255 | 1305A | B |
| 1303 | 0915 | 0923 | 1303A | B | | 094545 | W153.9 | | 1301 | 1438 | 1306A | B |
| 1303 | 0928 | 1014 | 1304A | B | | | | | 1443 | 1624 | 1307A | B |
| 1304 | 1103 | 1110 | 1304A | B | | 113301 | E179.3 | | 1629 | 1807 | 1308A | B |
| 1304 | 1115 | 1201 | 1305A | B | | | | | 1812 | 1952 | 1309A | B |
| 1305 | 1250 | 1255 | 1305A | B | | 132018 | E152.5 | | 1957 | 2138 | 1310A | B |
| 1305 | 1301 | 1348 | 1306A | B | | | | | | | | |
| 1306 | 1443 | 1536 | 1307A | B | | 150735 | E125.7 | | | | | |
| 1307 | 1629 | 1723 | 1308A | B | | 165451 | E098.9 | | | | | |
| 1308 | 1812 | 1910 | 1309A | B | | 184208 | E072.0 | | | | | |
| 1309 | 1959 | 2057 | 1310A | B | | 202924 | E045.2 | | | | | |
| 1310 | | | | | | 221641 | E018.4 | | | | | |
| 1311 | | | | | | 000357 | W008.4 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 19 MARCH 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D R | THIR GRID CORR | ASC. AND DESC. NODE | | | | INT ORBIT | H D R |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | S | LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1312 | | | | | | 005740 | E158.2 | 1313 | 0128 | 0320 | 1314R | A |
| 1313 | 0219 | 0308 | 1314R | A | | 024457 | E131.3 | 1314 | 0323 | 0507 | 1314R | B |
| 1314 | 0407 | 0455 | 1314R | B | | 043213 | E104.5 | 1315 | 0513 | 0641 | 1315R | B |
| 1315 | 0554 | 0641 | 1315R | B | | 061930 | E077.7 | 1316 | 0700 | 0839 | 1316A | B |
| 1316 | 0741 | 0830 | 1316A | B | | 080646 | E050.9 | 1317 | 0844 | 1025 | 1317A | B |
| 1317 | 0928 | 1017 | 1317A | B | | 095403 | E024.1 | 1318 | 1031 | 1211 | 1318A | B |
| 1318 | 1116 | 1205 | 1318A | B | | 114119 | W002.8 | 1319 | 1215 | 1354 | 1319A | B |
| 1319 | 1303 | 1352 | 1319A | B | | 132836 | W029.6 | 1320 | 1359 | 1538 | 1320A | B |
| 1320 | 1450 | 1538 | 1320A | B | | 151552 | W056.4 | 1321 | 1544 | 1724 | 1321A | B |
| 1321 | 1638 | 1723 | 1321A | B | | 170309 | W083.2 | 1322 | 1729 | 1906 | 1322A | B |
| 1322 | 1825 | 1906 | 1322A | B | | 185026 | W110.0 | 1323 | 1911 | 2054 | 1323A | B |
| 1323 | 2012 | 2053 | 1323A | B | | 203742 | W136.9 | 1324 | 2100 | 2241 | 1324A | B |
| 1324 | 2159 | 2240 | 1324A | B | | 222459 | W163.7 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1312 | 0129 | 0219 | 1314R | A | | 015114 | W035.2 | | 0129 | 0320 | 1314R | A |
| 1313 | 0308 | 0319 | 1314R | A | | 033831 | W062.1 | | 0323 | 0507 | 1314R | B |
| 1313 | 0323 | 0407 | 1314R | B | | | | | | | | |
| 1314 | 0455 | 0506 | 1314R | B | | 052547 | W088.9 | | 0512 | 0641 | 1315R | B |
| 1314 | 0512 | 0554 | 1315R | B | | | | | 0659 | 0839 | 1316A | B |
| 1315 | 0659 | 0741 | 1316A | B | | 071304 | W115.7 | | 0844 | 1025 | 1317A | B |
| 1316 | 0830 | 0839 | 1316A | B | | 090020 | W142.5 | | 1030 | 1211 | 1318A | B |
| 1316 | 0844 | 0928 | 1317A | B | | | | | 1215 | 1354 | 1319A | B |
| 1317 | 1017 | 1024 | 1317A | B | | 104737 | W169.3 | | 1359 | 1539 | 1320A | B |
| 1317 | 1030 | 1116 | 1318A | B | | | | | 1544 | 1724 | 1321A | B |
| 1318 | 1216 | 1303 | 1319A | B | | 123453 | E163.8 | | 1729 | 1906 | 1322A | B |
| 1319 | 1359 | 1450 | 1320A | B | | 142210 | E137.0 | | 1911 | 2054 | 1323A | B |
| 1320 | 1544 | 1638 | 1321A | B | | 160926 | E110.2 | | 2059 | 2241 | 1324A | B |
| 1321 | 1729 | 1825 | 1322A | B | | 175643 | E083.4 | | 2246 | 0043 | 1327R | A |
| 1322 | 1914 | 2012 | 1323A | B | | 194400 | E056.6 | | | | | |
| 1323 | 2101 | 2159 | 1324A | B | | 213116 | E029.7 | | | | | |
| 1324 | 2248 | 2347 | 1327R | A | | 231832 | E002.9 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 20 MARCH 1973

THIR

| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG |
|---|---|---|---|---|---|---|---|
| | | | DAYTIME THIR | | | ASC. NODE | |
| 1325 | 2347 | 0035 | 1327R | A | | 001215 | E169.5 |
| 1326 | | | | | | 015932 | E142.7 |
| 1327 | 0321 | 0410 | 1327R | B | | 034648 | E115.9 |
| 1328 | 0509 | 0557 | 1328R | B | | 053405 | E089.0 |
| 1329 | 0656 | 0745 | 1329A | B | | 072121 | E062.2 |
| 1330 | 0843 | 0932 | 1330A | B | 1E | 090838 | E035.4 |
| 1331 | 1030 | 1119 | 1331A | B | | 105555 | E008.6 |
| 1332 | 1218 | 1306 | 1332A | B | | 124311 | W018.2 |
| 1333 | 1405 | 1454 | 1333A | B | | 143028 | W045.1 |
| 1334 | 1552 | 1638 | 1334A | B | 1S | 161744 | W071.9 |
| 1335 | 1740 | 1823 | 1335A | B | | 180501 | W098.7 |
| 1336 | 1927 | 2009 | 1336A | B | | 195217 | W125.5 |
| 1337 | 2114 | 2157 | 1337A | B | | 213934 | W152.3 |
| 1338 | | | | | | 232650 | W179.2 |
| | | | NIGHTTIME THIR | | | DESC. NODE | |
| 1325 | 0035 | 0043 | 1327R | A | | 010549 | W023.9 |
| 1326 | 0242 | 0321 | 1327R | B | | 025306 | W050.7 |
| 1327 | 0410 | 0423 | 1327R | B | | 044022 | W077.5 |
| 1327 | 0429 | 0509 | 1328R | B | | | |
| 1328 | 0557 | 0609 | 1328R | B | | 062739 | W104.4 |
| 1328 | 0621 | 0656 | 1329A | B | | | |
| 1329 | 0745 | 0756 | 1329A | B | | 081456 | W131.2 |
| 1329 | 0802 | 0843 | 1330A | B | 1W | | |
| 1330 | 0932 | 0939 | 1330A | B | 1W | 100212 | W158.0 |
| 1330 | 0944 | 1030 | 1331A | B | | | |
| 1331 | 1119 | 1127 | 1331A | B | | 114929 | E175.2 |
| 1331 | 1132 | 1218 | 1332A | B | | | |
| 1332 | 1316 | 1405 | 1333A | B | | 133645 | E148.4 |
| 1333 | 1500 | 1552 | 1334A | B | 1N | 152402 | E121.6 |
| 1334 | 1645 | 1740 | 1335A | B | | 171118 | E094.8 |
| 1335 | 1828 | 1927 | 1336A | B | | 185835 | E067.9 |
| 1336 | 2016 | 2114 | 1337A | B | | 204551 | E041.1 |
| 1337 | | | | | | 223308 | E014.3 |
| 1338 | | | | | | 002025 | W012.5 |

ESMR

| DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
|---|---|---|---|---|
| 1325 | 2246 | 0044 | 1327R | A |
| 1327 | 0241 | 0423 | 1327R | B |
| 1328 | 0430 | 0609 | 1328R | B |
| 1329 | 0620 | 0757 | 1329A | B |
| 1330 | 0801 | 0940 | 1330A | B |
| 1331 | 0945 | 1028 | 1331A | B |
| 1332 | 1132 | 1310 | 1332A | B |
| 1333 | 1316 | 1455 | 1333A | B |
| 1334 | 1500 | 1639 | 1334A | B |
| 1335 | 1644 | 1824 | 1335A | B |
| 1336 | 1828 | 2010 | 1336A | B |
| 1337 | 2015 | 2155 | 1337A | B |

NEMS - SCR - ITPR

| | | | |
|---|---|---|---|
| 0242 | 0423 | 1327R | B |
| 0429 | 0609 | 1328R | B |
| 0620 | 0757 | 1329A | B |
| 0802 | 0940 | 1330A | B |
| 0945 | 1127 | 1331A | B |
| 1132 | 1311 | 1332A | B |
| 1316 | 1455 | 1333A | B |
| 1500 | 1639 | 1334A | B |
| 1644 | 1824 | 1335A | B |
| 1829 | 2010 | 1336A | B |
| 2015 | 2155 | 1337A | B |
| 2359 | 0156 | 1341R | A |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 21 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 1339 | 0049 | 0137 | 1341R | A | | 011407 | E154.1 | 1339 | 2359 | 0156 | 1341R | A |
| 1340 | 0236 | 0325 | 1340R | B | | 030124 | E127.2 | 1340 | 0157 | 0344 | 1340R | B |
| 1341 | 0423 | 0504 | 1341R | B | | 044840 | E100.4 | 1341 | 0350 | 0505 | 1341R | B |
| 1342 | 0611 | 0659 | 1342R | B | 1E | 063557 | E073.6 | 1342 | 0528 | 0713 | 1342R | B |
| 1343 | 0758 | 0847 | 1343A | B | | 082313 | E046.8 | 1343 | 0718 | 0855 | 1343A | B |
| 1344 | 0945 | 1034 | 1344A | B | | 101030 | E020.0 | 1344 | 0900 | 1042 | 1344A | B |
| 1345 | 1132 | 1221 | 1345A | B | | 115746 | W006.9 | 1345 | 1046 | 1227 | 1345A | B |
| 1346 | 1320 | 1408 | 1346A | B | | 134503 | W033.7 | 1346 | 1232 | 1411 | 1346A | B |
| 1347 | 1507 | 1555 | 1347A | B | | 153219 | W060.5 | 1347 | 1415 | 1556 | 1347A | B |
| 1348 | 1654 | 1740 | 1348A | B | | 171936 | W087.3 | 1348 | 1601 | 1738 | 1348A | B |
| 1349 | 1842 | 1923 | 1349A | B | | 190652 | W114.1 | 1349 | 1745 | 1924 | 1349A | B |
| 1350 | 2029 | 2111 | 1350A | B | | 205409 | W141.0 | 1350 | 1928 | 2112 | 1350A | B |
| 1351 | 2216 | 2259 | 1351A | B | | 224126 | W167.8 | 1351 | 2117 | 2259 | 1351A | B |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 1339 | 0137 | 0155 | 1341R | A | | 020741 | W039.3 | 0157 | 0344 | 1340R | B | |
| 1339 | 0157 | 0236 | 1340R | B | | | | 0350 | 0505 | 1341R | B | |
| 1340 | 0325 | 0343 | 1340R | B | | 035458 | W066.2 | 0528 | 0713 | 1342A | B | |
| 1340 | 0350 | 0423 | 1341R | B | | | | 0718 | 0856 | 1343A | B | |
| 1341 | 0528 | 0611 | 1342R | B | 1W | 054214 | W093.0 | 0900 | 1042 | 1344A | B | |
| 1342 | 0659 | 0713 | 1342R | B | 1W | 072931 | W119.8 | 1046 | 1227 | 1345A | B | |
| 1342 | 0718 | 0758 | 1343A | B | | | | 1232 | 1411 | 1346A | B | |
| 1343 | 0847 | 0855 | 1343A | B | | 091647 | W146.6 | 1416 | 1556 | 1347A | B | |
| 1343 | 0900 | 0945 | 1344A | B | | | | 1601 | 1739 | 1348A | B | |
| 1344 | 1034 | 1041 | 1344A | B | | 110404 | W173.5 | 1745 | 1924 | 1349A | B | |
| 1344 | 1047 | 1132 | 1345A | B | | | | 1929 | 2112 | 1350A | B | |
| 1345 | 1221 | 1227 | 1345A | B | | 125120 | E159.7 | 2117 | 2259 | 1351A | B | |
| 1345 | 1232 | 1320 | 1346A | B | | | | 2300 | 0059 | 1354R | A | |
| 1346 | 1416 | 1507 | 1347A | B | | 143837 | E132.9 | | | | | |
| 1347 | 1601 | 1654 | 1348A | B | | 162554 | E106.1 | | | | | |
| 1348 | 1745 | 1842 | 1349A | B | | 181310 | E079.3 | | | | | |
| 1349 | 1930 | 2029 | 1350A | B | | 200027 | E052.4 | | | | | |
| 1350 | 2118 | 2216 | 1351A | B | | 214743 | E025.6 | | | | | |
| 1351 | 2305 | 0003 | 1354R | A | | 233500 | W001.2 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 22 MARCH 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | ASC. AND DESC. NODE | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1352 | 0003 | 0052 | 1354R | A | | 002842 | E165.4 | 1352 | 2300 | 0059 | 1354R | A |
| 1353 | | | | | | 021559 | E138.6 | 1354 | 0259 | 0439 | 1354R | B |
| 1354 | 0338 | 0427 | 1354R | B | | 040315 | E111.7 | 1355 | 0445 | 0626 | 1355R | B |
| 1355 | 0525 | 0614 | 1355R | B | | 055032 | E084.9 | 1356 | 0631 | 0809 | 1356A | B |
| 1356 | 0713 | 0801 | 1356A | B | | 073748 | E058.1 | 1357 | 0814 | 0953 | 1357A | B |
| 1357 | 0900 | 0949 | 1357A | B | | 092505 | E031.3 | 1358 | 0959 | 1139 | 1358A | B |
| 1358 | 1047 | 1136 | 1358A | B | | 111221 | E004.5 | 1359 | 1145 | 1327 | 1359A | B |
| 1359 | 1234 | 1323 | 1359A | B | | 125938 | W022.4 | 1360 | 1332 | 1512 | 1360A | B |
| 1360 | 1422 | 1510 | 1360A | B | | 144655 | W049.2 | 1361 | 1516 | 1656 | 1361A | B |
| 1361 | 1609 | 1655 | 1361A | B | | 163411 | W076.0 | 1362 | 1701 | 1839 | 1362A | B |
| 1362 | 1756 | 1838 | 1362A | B | | 182128 | W102.8 | 1363 | 1944 | 2025 | 1363A | B |
| 1363 | 1944 | 2025 | 1363A | B | | 200844 | W129.6 | 1364 | 2030 | 2212 | 1364A | B |
| 1364 | 2131 | 2211 | 1364A | B | | 215601 | W156.5 | | | | | |
| 1365 | | | | | | 234317 | E176.8 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1352 | 0052 | 0059 | 1354R | A | | 012216 | W028.0 | | 0256 | 0439 | 1354R | B |
| 1353 | 0256 | 0338 | 1354R | B | | 030933 | W054.8 | | 0445 | 0626 | 1355R | B |
| 1354 | 0427 | 0439 | 1354R | B | | 045650 | W081.7 | | 0631 | 0809 | 1356A | B |
| 1354 | 0445 | 0525 | 1355R | B | | | | | 0814 | 0953 | 1357A | B |
| 1355 | 0614 | 0625 | 1355R | B | | 064406 | W108.5 | | 0959 | 1139 | 1358A | B |
| 1355 | 0631 | 0713 | 1356A | B | | | | | 1143 | 1327 | 1359A | B |
| 1356 | 0801 | 0809 | 1356A | B | | 083123 | W135.3 | | 1332 | 1511 | 1360A | B |
| 1356 | 0814 | 0900 | 1357A | B | | | | | 1516 | 1656 | 1361A | B |
| 1357 | 0959 | 1047 | 1358A | B | | 101839 | W162.1 | | 1701 | 1839 | 1362A | B |
| 1358 | 1144 | 1234 | 1359A | B | | 120556 | E171.1 | | 1843 | 2025 | 1363A | B |
| 1359 | 1332 | 1422 | 1360A | B | | 135312 | E144.3 | | 2030 | 2212 | 1364A | B |
| 1360 | 1516 | 1609 | 1361A | B | | 154029 | E117.5 | | | | | |
| 1361 | 1701 | 1756 | 1362A | B | | 172745 | E090.6 | | | | | |
| 1362 | 1845 | 1944 | 1363A | B | | 191502 | E063.8 | | | | | |
| 1363 | 2032 | 2131 | 1364A | B | | 210219 | E037.0 | | | | | |
| 1364 | | | | | | 224935 | E010.2 | | | | | |
| 1365 | 0016 | 0105 | 1368R | A | | 003652 | W017.0 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 23 MARCH 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | ASC. AND DESC. NODE | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 1366 | 0105 | 0154 | 1368R | A | | 013034 | E149.9 | 1366 | 0016 | 0211 | 1368R | A |
| 1367 | 0253 | 0341 | 1367R | B | | 031750 | E123.1 | 1367 | 0201 | 0359 | 1367R | B |
| 1368 | 0440 | 0521 | 1368R | B | | 050507 | E096.3 | 1368 | 0405 | 0522 | 1368R | B |
| 1369 | 0627 | 0716 | 1369A | B | | 065223 | E069.5 | 1369 | 0546 | 0725 | 1369A | B |
| 1370 | 0815 | 0903 | 1370A | B | | 083940 | E042.7 | 1370 | 0730 | 0910 | 1370A | B |
| 1371 | 1002 | 1051 | 1371A | B | | 102657 | E015.8 | 1371 | 0915 | 1057 | 1371A | B |
| 1372 | 1149 | 1238 | 1372A | B | | 121413 | W011.0 | 1372 | 1101 | 1243 | 1372A | B |
| 1373 | 1336 | 1425 | 1373A | B | | 140130 | W037.8 | 1373 | 1248 | 1430 | 1373A | B |
| 1374 | 1524 | 1611 | 1374A | B | | 154846 | W064.6 | 1374 | 1435 | 1611 | 1374A | B |
| 1375 | 1711 | 1756 | 1375A | B | | 173603 | W091.4 | 1375 | 1616 | 1757 | 1375A | B |
| 1376 | 1858 | 1940 | 1376A | B | | 192319 | W118.3 | 1376 | 1801 | 1939 | 1376A | B |
| 1377 | 2046 | 2127 | 1377A | B | | 211036 | W145.1 | 1377 | 1945 | 2127 | 1377A | B |
| 1378 | 2233 | 2314 | 1378A | B | | 225752 | W171.9 | 1378 | 2132 | 2315 | 1378A | B |
| 1378 | 2315 | 2322 | 1381R | A | | | | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 1366 | 0154 | 0211 | 1368R | A | | 022408 | W043.5 | 0015 | 0211 | 1368R | A | |
| 1366 | 0202 | 0253 | 1367R | B | | | | 0201 | 0359 | 1367R | B | |
| 1367 | 0341 | 0359 | 1367R | B | | 041125 | W070.3 | 0405 | 0522 | 1368R | B | |
| 1367 | 0405 | 0440 | 1368R | B | | | | 0545 | 0725 | 1369A | B | |
| 1368 | 0545 | 0627 | 1369A | B | | 055841 | W097.1 | 0730 | 0910 | 1370A | B | |
| 1369 | 0716 | 0724 | 1369A | B | | 074558 | W123.9 | 0915 | 1056 | 1371A | B | |
| 1369 | 0730 | 0815 | 1370A | B | | | | 1101 | 1243 | 1372A | B | |
| 1370 | 0903 | 0909 | 1370A | B | | 093314 | W150.7 | 1248 | 1430 | 1373A | B | |
| 1370 | 0915 | 1002 | 1371A | B | | | | 1435 | 1611 | 1374A | B | |
| 1371 | 1101 | 1149 | 1372A | B | | 112031 | W177.6 | 1616 | 1756 | 1375A | B | |
| 1372 | 1248 | 1336 | 1373A | B | | 130748 | E155.6 | 1801 | 1939 | 1376A | B | |
| 1373 | 1436 | 1524 | 1374A | B | | 145504 | E128.8 | 1945 | 2127 | 1377A | B | |
| 1374 | 1616 | 1711 | 1375A | B | | 164221 | E102.0 | 2132 | 2315 | 1378A | B | |
| 1375 | 1801 | 1858 | 1376A | B | | 182937 | E075.2 | 2315 | 0114 | 1381R | A | |
| 1376 | 1947 | 2046 | 1377A | B | | 201654 | E048.3 | | | | | |
| 1377 | 2134 | 2233 | 1378A | B | | 220410 | E021.5 | | | | | |
| 1378 | 2322 | 0020 | 1381R | A | | 235127 | W005.3 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 24 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | | | DAYTIME THIR | | | ASC. NODE | | | | | | |
| 1379 | 0020 | 0109 | 1381R | A | | 004509 | E161.3 | 1379 | 2315 | 0114 | 1381R | A |
| 1380 | | | | | | 023225 | E134.5 | 1381 | 0309 | 0455 | 1381R | B |
| 1381 | 0355 | 0443 | 1381R | B | | 041942 | E107.6 | 1382 | 0501 | 0641 | 1382R | B |
| 1382 | 0542 | 0631 | 1382R | B | 1E | 060659 | E080.8 | 1383 | 0648 | 0827 | 1383A | B |
| 1383 | 0729 | 0818 | 1383A | B | | 075415 | E054.0 | 1384 | 0831 | 1013 | 1384A | B |
| 1384 | 0917 | 1005 | 1384A | B | | 094132 | E027.2 | 1385 | 1018 | 1157 | 1385A | B |
| 1385 | 1104 | 1153 | 1385A | B | | 112848 | E000.4 | 1386 | 1202 | 1343 | 1386A | B |
| 1386 | 1251 | 1340 | 1386A | B | | 131605 | W026.5 | 1387 | 1347 | 1527 | 1387A | B |
| 1387 | 1438 | 1526 | 1387A | B | | 150321 | W053.3 | 1388 | 1532 | 1713 | 1388A | B |
| 1388 | 1626 | 1712 | 1388A | B | | 165038 | W080.1 | 1389 | 1717 | 1855 | 1389A | B |
| 1389 | 1813 | 1854 | 1389A | B | | 183754 | W106.9 | 1390 | 1900 | 2040 | 1390A | B |
| 1390 | 2000 | 2040 | 1390A | B | | 202511 | W133.7 | 1391 | 2045 | 2229 | 1391A | B |
| 1391 | 2147 | 2228 | 1391A | B | | 221228 | W160.6 | | | | | |
| 1392 | | | | | | 235944 | E172.6 | | | | | |
| | | | NIGHTTIME THIR | | | DESC. NODE | | | | | | |
| 1379 | | | | | | 013844 | W032.1 | | | | | |
| 1380 | 0310 | 0355 | 1381R | B | | 032600 | W059.0 | | | | | |
| 1381 | 0443 | 0455 | 1381R | B | | 051317 | W085.8 | | | | | |
| 1381 | 0500 | 0542 | 1382R | B | 1W | | | | | | | |
| 1382 | 0631 | 0642 | 1382R | B | 1W | 070033 | W112.6 | | | | | |
| 1382 | 0647 | 0729 | 1383A | B | | | | | | | | |
| 1383 | 0818 | 0826 | 1383A | B | | 084750 | W139.4 | | | | | |
| 1383 | 0832 | 0917 | 1384A | B | | | | | | | | |
| 1384 | 1005 | 1012 | 1384A | B | | 103506 | W166.2 | | | | | |
| 1384 | 1019 | 1104 | 1385A | B | | | | | | | | |
| 1385 | 1202 | 1251 | 1386A | B | | 122223 | E167.0 | | | | | |
| 1386 | 1347 | 1438 | 1387A | B | | 140939 | E140.2 | | | | | |
| 1387 | 1532 | 1626 | 1388A | B | | 155656 | E113.4 | | | | | |
| 1388 | 1717 | 1813 | 1389A | B | | 174413 | E086.5 | | | | | |
| 1389 | 1902 | 2000 | 1390A | B | | 193129 | E059.7 | | | | | |
| 1390 | 2049 | 2147 | 1391A | B | | 211846 | E032.9 | | | | | |
| 1391 | | | | | | 230602 | E006.1 | | | | | |
| 1392 | 0032 | 0122 | 1394R | A | | 005319 | W020.8 | | | | | |

| NEMS - SCR - ITPR | | | |
|---|---|---|---|
| 0309 | 0455 | 1381R | B |
| 0500 | 0642 | 1382R | B |
| 0647 | 0827 | 1383A | B |
| 0832 | 1013 | 1384A | B |
| 1018 | 1157 | 1385A | B |
| 1202 | 1343 | 1386A | B |
| 1347 | 1527 | 1387A | B |
| 1532 | 1713 | 1388A | B |
| 1717 | 1855 | 1389A | B |
| 1900 | 2041 | 1390A | B |
| 2045 | 2229 | 1391A | B |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 25 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1393 | 0122 | 0211 | 1394R | A | | 014701 | E145.8 | 1393 | 0032 | 0227 | 1394R | A |
| 1394 | 0309 | 0358 | 1394R | B | 1E | 033417 | E119.0 | 1394 | 0227 | 0353 | 1394R | B |
| 1395 | 0457 | 0545 | 1395R | B | | 052134 | E092.2 | 1395 | 0418 | 0557 | 1395R | B |
| 1396 | 0644 | 0733 | 1396A | B | 1S | 070850 | E065.4 | 1396 | 0604 | 0741 | 1396A | B |
| 1397 | 0831 | 0920 | 1397A | B | | 085607 | E038.5 | 1397 | 0746 | 0927 | 1397A | B |
| 1398 | 1018 | 1107 | 1398A | B | | 104323 | E011.7 | 1398 | 0932 | 1112 | 1398A | B |
| 1399 | 1206 | 1255 | 1399A | B | | 123040 | W015.1 | 1399 | 1117 | 1258 | 1399A | B |
| 1400 | 1353 | 1442 | 1400A | B | | 141756 | W041.9 | 1400 | 1304 | 1443 | 1400A | B |
| 1401 | 1540 | 1629 | 1401A | B | | 160513 | W068.8 | 1401 | 1447 | 1628 | 1401A | B |
| 1402 | 1728 | 1812 | 1402A | B | | 175230 | W095.6 | 1402 | 1634 | 1812 | 1402A | B |
| 1403 | 1915 | 1955 | 1403A | B | | 193946 | W122.4 | 1403 | 1817 | 1955 | 1403A | B |
| 1404 | 2102 | 2144 | 1404A | B | | 212703 | W149.2 | 1404 | 2000 | 2145 | 1404A | B |
| 1404 | 2146 | 2151 | 1408R | A | | | | 1405 | 2146 | 2345 | 1408R | A |
| 1405 | 2249 | 2338 | 1408R | A | | 231419 | W176.0 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1393 | 0211 | 0226 | 1394R | A | | 024035 | W047.6 | | 0032 | 0227 | 1394R | A |
| 1393 | 0227 | 0309 | 1394R | B | 1W | | | | 0228 | 0353 | 1394R | B |
| 1394 | 0358 | 0410 | 1394R | B | 1W | 042752 | W074.4 | | 0418 | 0558 | 1395R | B |
| 1394 | 0418 | 0457 | 1395R | B | | | | | 0602 | 0741 | 1396A | B |
| 1395 | 0545 | 0557 | 1395R | B | | 061508 | W101.2 | | 0746 | 0927 | 1397A | B |
| 1395 | 0602 | 0644 | 1396A | B | 1N | | | | 0932 | 1112 | 1398A | B |
| 1396 | 0733 | 0740 | 1396A | B | 1N | 080225 | W128.0 | | 1117 | 1258 | 1399A | B |
| 1396 | 0746 | 0831 | 1397A | B | | | | | 1304 | 1443 | 1400A | B |
| 1397 | 0920 | 0926 | 1397A | B | | 094942 | W154.9 | | 1447 | 1628 | 1401A | B |
| 1397 | 0933 | 1018 | 1398A | B | | | | | 1634 | 1812 | 1402A | B |
| 1398 | 1117 | 1206 | 1399A | B | | 113658 | E178.3 | | 1817 | 1956 | 1403A | B |
| 1399 | 1304 | 1353 | 1400A | B | | 132415 | E151.5 | | 2001 | 2145 | 1404A | B |
| 1400 | 1448 | 1540 | 1401A | B | | 151131 | E124.7 | | 2146 | 2345 | 1408R | A |
| 1401 | 1635 | 1728 | 1402A | B | | 165848 | E097.9 | | | | | |
| 1402 | 1817 | 1915 | 1403A | B | | 184604 | E071.0 | | | | | |
| 1403 | 2004 | 2102 | 1404A | B | | 203321 | E044.2 | | | | | |
| 1404 | 2151 | 2249 | 1408R | A | | 222038 | E017.4 | | | | | |
| 1405 | 2338 | 2344 | 1408R | A | | 000754 | W009.4 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 26 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | ASC. AND DESC. NODE | | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| DAYTIME THIR | | | | | | ASC. NODE | | | | | | |
| 1406 | | | | | | 010136 | E157.2 | 1408 | 0323 | 0500 | 1408R | B |
| 1407 | | | | | | 024852 | E130.4 | 1409 | 0516 | 0700 | 1409R | B |
| 1408 | 0411 | 0500 | 1408R | B | 1E | 043609 | E103.5 | 1410 | 0705 | 0845 | 1410A | B |
| 1409 | 0559 | 0647 | 1409R | B | | 062325 | E076.7 | 1411 | 0849 | 1028 | 1411A | B |
| 1410 | 0746 | 0835 | 1410A | B | | 081042 | E049.9 | 1412 | 1033 | 1214 | 1412A | B |
| 1411 | 0933 | 1022 | 1411A | B | | 095758 | E023.1 | 1413 | 1219 | 1357 | 1413A | B |
| 1412 | 1120 | 1209 | 1412A | B | | 114515 | W003.8 | 1414 | 1403 | 1546 | 1414A | B |
| 1413 | 1308 | 1356 | 1413A | B | | 133232 | W030.6 | 1415 | 1551 | 1727 | 1415A | B |
| 1414 | 1456 | 1544 | 1414A | B | | 151948 | W057.4 | 1416 | 1732 | 1911 | 1416A | B |
| 1415 | 1642 | 1726 | 1415A | B | | 170705 | W084.2 | 1417 | 1916 | 2057 | 1417A | B |
| 1416 | 1830 | 1910 | 1416A | B | | 185421 | W111.0 | 1418 | 2102 | 2246 | 1418A | B |
| 1417 | 2017 | 2057 | 1417A | B | 1N | 204138 | W137.9 | | | | | |
| 1418 | 2204 | 2245 | 1418A | B | | 222854 | W164.7 | | | | | |
| NIGHTTIME THIR | | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 1406 | | | | | | 015511 | W036.2 | 0324 | 0500 | 1408R | B | |
| 1407 | 0323 | 0411 | 1408R | B | 1W | 034227 | W063.1 | 0516 | 0700 | 1409R | B | |
| 1408 | 0500 | 0510 | 1408R | B | 1W | 052944 | W089.9 | 0705 | 0845 | 1410A | B | |
| 1408 | 0517 | 0559 | 1409R | B | | | | 0849 | 1028 | 1411A | B | |
| 1409 | 0647 | 0659 | 1409R | B | | 071700 | W116.7 | 1033 | 1214 | 1412A | B | |
| 1409 | 0705 | 0746 | 1410A | B | | | | 1219 | 1357 | 1413A | B | |
| 1410 | 0835 | 0844 | 1410A | B | | 090417 | W143.5 | 1403 | 1546 | 1414A | B | |
| 1410 | 0849 | 0933 | 1411A | B | | | | 1551 | 1727 | 1415A | B | |
| 1411 | 1033 | 1120 | 1412A | B | | 105133 | W170.3 | 1732 | 1911 | 1416A | B | |
| 1412 | 1219 | 1308 | 1413A | B | | 123850 | E162.8 | 1916 | 2057 | 1417A | B | |
| 1413 | 1403 | 1455 | 1414A | B | | 142607 | E136.0 | 2102 | 2246 | 1418A | B | |
| 1414 | 1551 | 1642 | 1415A | B | | 161323 | E109.2 | | | | | |
| 1415 | 1732 | 1830 | 1416A | B | | 180040 | E082.4 | | | | | |
| 1416 | 1918 | 2017 | 1417A | B | 1S | 194756 | E055.6 | | | | | |
| 1417 | 2106 | 2204 | 1418A | B | | 213513 | E028.8 | | | | | |
| 1418 | | | | | | 232229 | E002.0 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 27 MARCH 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1419 | | | | | | 001611 | E168.5 | 1420 | 0053 | 0242 | 1421R | A |
| 1420 | 0139 | 0227 | 1421R | A | | 020327 | E141.7 | 1421 | 0242 | 0428 | 1421R | B |
| 1421 | 0326 | 0415 | 1421R | B | | 035044 | E114.9 | 1422 | 0433 | 0614 | 1422R | B |
| 1422 | 0513 | 0602 | 1422R | B | | 053801 | E088.1 | 1423 | 0620 | 0757 | 1423A | B |
| 1423 | 0701 | 0749 | 1423A | B | | 072517 | E061.3 | 1424 | 0802 | 0944 | 1424A | B |
| 1424 | 0848 | 0937 | 1424A | B | | 091234 | E034.5 | 1425 | 0948 | 1129 | 1425A | B |
| 1425 | 1035 | 1124 | 1425A | B | | 105950 | E007.6 | 1426 | 1135 | 1315 | 1426A | B |
| 1426 | 1222 | 1311 | 1426A | B | | 124707 | W019.2 | 1427 | 1320 | 1459 | 1427A | B |
| 1427 | 1410 | 1458 | 1427A | B | | 143423 | W046.0 | 1428 | 1504 | 1644 | 1428A | B |
| 1428 | 1557 | 1643 | 1428A | B | | 162140 | W072.9 | 1429 | 1649 | 1826 | 1429A | B |
| 1429 | 1744 | 1825 | 1429A | B | | 180856 | W100.0 | 1430 | 1831 | 2011 | 1430A | B |
| 1430 | 1932 | 2010 | 1430A | B | | 195613 | W126.5 | 1431 | 2016 | 2202 | 1431A | B |
| 1431 | 2119 | 2201 | 1431A | B | | 214329 | W153.3 | 1432 | 2203 | 0003 | 1435R | A |
| 1431 | 2203 | 2208 | 1435R | A | | | | | | | | |
| 1432 | 2306 | 2355 | 1435R | A | | 233046 | E179.9 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 1419 | 0048 | 0139 | 1421R | A | | 010946 | W024.9 | 0047 | 0242 | 1421R | A | |
| 1420 | 0227 | 0241 | 1421R | A | | 025702 | W051.7 | 0242 | 0428 | 1421R | B | |
| 1420 | 0243 | 0326 | 1421R | B | | | | 0433 | 0614 | 1422R | B | |
| 1421 | 0415 | 0427 | 1421R | B | | 044419 | W078.5 | 0619 | 0757 | 1423A | B | |
| 1421 | 0433 | 0513 | 1422R | B | | | | 0802 | 0944 | 1424A | B | |
| 1422 | 0602 | 0613 | 1422R | B | | 063136 | W105.3 | 0949 | 1129 | 1425A | B | |
| 1422 | 0619 | 0701 | 1423A | B | | | | 1135 | 1315 | 1426A | B | |
| 1423 | 0749 | 0756 | 1423A | B | | 081852 | W132.1 | 1320 | 1459 | 1427A | B | |
| 1423 | 0802 | 0848 | 1424A | B | | | | 1504 | 1644 | 1428A | B | |
| 1424 | 0937 | 0943 | 1424A | B | | 100609 | W159.0 | 1649 | 1826 | 1429A | B | |
| 1424 | 0949 | 1035 | 1425A | B | | | | 1831 | 2011 | 1430A | B | |
| 1425 | 1135 | 1222 | 1426A | B | | 115325 | E174.2 | 2016 | 2202 | 1431A | B | |
| 1426 | 1320 | 1410 | 1427A | B | | 134042 | E147.4 | 2203 | 0003 | 1435R | A | |
| 1427 | 1504 | 1557 | 1428A | B | | 152758 | E120.6 | | | | | |
| 1428 | 1649 | 1744 | 1429A | B | | 171515 | E093.8 | | | | | |
| 1429 | 1833 | 1932 | 1430A | B | | 190231 | E066.9 | | | | | |
| 1430 | 2020 | 2119 | 1431A | B | | 204948 | E040.1 | | | | | |
| 1431 | 2208 | 2306 | 1435R | A | | 223705 | E013.3 | | | | | |
| 1432 | 2355 | 0002 | 1435R | A | | 002421 | W013.5 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 28 MARCH 1973

| THIR | | | | | | ASC. AND | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.5 + 6.7 | | INT ORBIT | H D | THIR GRID | DESC. NODE | | | | | INT ORBIT | H D |
| DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S | CORR LALO | TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | + STDN | R S |
| **DAYTIME THIR** | | | | | | **ASC. NODE** | | | | | | |
| 1433 | | | | | | 011803 | E153.1 | 1434 | 0148 | 0347 | 1434R | B |
| 1434 | 0241 | 0329 | 1434R | B | | 030519 | E126.2 | 1435 | 0352 | 0527 | 1435R | B |
| 1435 | 0428 | 0517 | 1435R | B | | 045236 | E099.4 | 1436 | 0535 | 0712 | 1436A | B |
| 1436 | 0615 | 0704 | 1436R | B | | 063952 | E072.6 | 1437 | 0722 | 0859 | 1437A | B |
| 1437 | 0803 | 0851 | 1437A | B | | 082709 | E045.8 | 1438 | 0903 | 1044 | 1438A | B |
| 1438 | 0950 | 1039 | 1438A | B | | 101425 | E019.0 | 1439 | 1049 | 1230 | 1439A | B |
| 1439 | 1137 | 1226 | 1439A | B | | 120142 | W007.9 | 1440 | 1235 | 1416 | 1440A | B |
| 1440 | 1324 | 1413 | 1440A | B | | 134858 | W034.7 | 1441 | 1421 | 1601 | 1441A | B |
| 1441 | 1512 | 1600 | 1441A | B | | 153615 | W061.5 | 1442 | 1605 | 1742 | 1442A | B |
| 1442 | 1659 | 1741 | 1442A | B | | 172331 | W088.3 | 1443 | 1747 | 1929 | 1443A | B |
| 1443 | 1846 | 1928 | 1443A | B | | 191048 | W115.1 | 1444 | 1934 | 2116 | 1444A | B |
| 1444 | 2034 | 2115 | 1444A | B | | 205805 | W142.0 | 1445 | 2122 | 2306 | 1445A | B |
| 1445 | 2221 | 2305 | 1445A | B | | 224521 | W168.8 | | | | | |
| **NIGHTTIME THIR** | | | | | | **DESC. NODE** | | **NEMS - SCR - ITPR** | | | | |
| 1433 | 0149 | 0241 | 1434R | B | | 021138 | W040.4 | 0149 | 0346 | 1434R | B | |
| 1434 | 0329 | 0346 | 1434R | B | | 035854 | W067.2 | 0352 | 0527 | 1435R | B | |
| 1434 | 0352 | 0428 | 1435R | B | | | | 0533 | 0712 | 1436R | B | |
| 1435 | 0517 | 0527 | 1435R | B | | 054611 | W094.0 | 0722 | 0858 | 1437A | B | |
| 1435 | 0533 | 0615 | 1436R | B | | | | 0903 | 1044 | 1438A | B | |
| 1436 | 0704 | 0712 | 1436R | B | | 073327 | W120.8 | 1049 | 1229 | 1439A | B | |
| 1436 | 0721 | 0803 | 1437A | B | | | | 1235 | 1416 | 1440A | B | |
| 1437 | 0851 | 0857 | 1437A | B | | 092044 | W147.6 | 1421 | 1601 | 1441A | B | |
| 1437 | 0903 | 0950 | 1438A | B | | | | 1605 | 1742 | 1442A | B | |
| 1438 | 1049 | 1137 | 1439A | B | | 110801 | W174.5 | 1747 | 1929 | 1443A | B | |
| 1439 | 1235 | 1324 | 1440A | B | | 125517 | E158.8 | 1934 | 2116 | 1444A | B | |
| 1440 | 1421 | 1512 | 1441A | B | | 144234 | E131.9 | 2122 | 2306 | 1445A | B | |
| 1441 | 1605 | 1659 | 1442A | B | | 162950 | E105.1 | | | | | |
| 1442 | 1748 | 1846 | 1443A | B | | 181707 | E078.3 | | | | | |
| 1443 | 1935 | 2034 | 1444A | B | | 200423 | E051.5 | | | | | |
| 1444 | 2122 | 2221 | 1445A | B | | 215140 | E024.7 | | | | | |
| 1445 | | | | | | 233856 | W002.2 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 29 MARCH 1973

| THIR | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1446 | | | | | | 003238 | E164.4 | 1447 | 0104 | 0257 | 1448R | A |
| 1447 | 0155 | 0244 | 1448R | A | | 021954 | E137.6 | 1448 | 0257 | 0444 | 1448R | B |
| 1448 | 0343 | 0431 | 1448R | B | | 040711 | E110.8 | 1449 | 0449 | 0630 | 1449R | B |
| 1449 | 0530 | 0619 | 1449R | B | | 055427 | E083.9 | 1450 | 0636 | 0812 | 1450A | B |
| 1450 | 0717 | 0806 | 1450A | B | | 074144 | E057.1 | 1451 | 0818 | 1000 | 1451A | B |
| 1451 | 0905 | 0953 | 1451A | B | | 092900 | E030.3 | 1452 | 1004 | 1145 | 1452A | B |
| 1452 | 1052 | 1141 | 1452A | B | | 111617 | E003.5 | 1453 | 1150 | 1330 | 1453A | B |
| 1453 | 1239 | 1328 | 1453A | B | | 130334 | W023.3 | 1454 | 1335 | 1515 | 1454A | B |
| 1454 | 1426 | 1515 | 1454A | B | | 145050 | W050.2 | 1455 | 1520 | 1659 | 1455A | B |
| 1455 | 1614 | 1658 | 1455A | B | | 163807 | W077.0 | 1456 | 1704 | 1840 | 1456A | B |
| 1456 | 1801 | 1839 | 1456A | B | | 182523 | W103.8 | 1457 | 1846 | 2028 | 1457A | B |
| 1456 | 1845 | 1850 | 1457A | B | | | | 1458 | 2033 | 2217 | 1458A | B |
| 1457 | 1948 | 2028 | 1457A | B | | 201240 | W130.6 | 1459 | 2219 | 0018 | 1462R | A |
| 1458 | 2136 | 2217 | 1458A | B | | 215956 | W157.4 | | | | | |
| 1458 | 2219 | 2224 | 1462R | A | | | | | | | | |
| 1459 | 2323 | 0012 | 1462R | A | | 234713 | E175.8 | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | NEMS - SCR - ITPR | | | | |
| 1446 | 0104 | 0155 | 1448R | A | | 012613 | W029.0 | 0104 | 0257 | 1448R | A | |
| 1447 | 0244 | 0256 | 1448R | A | | 031330 | W055.8 | 0257 | 0444 | 1448R | B | |
| 1447 | 0258 | 0343 | 1448R | B | | | | 0449 | 0630 | 1449R | B | |
| 1448 | 0431 | 0443 | 1448R | B | | 050046 | W082.6 | 0635 | 0812 | 1450A | B | |
| 1448 | 0449 | 0530 | 1449R | B | | | | 0818 | 0959 | 1451A | B | |
| 1449 | 0619 | 0629 | 1449R | B | | 064803 | W109.4 | 1005 | 1145 | 1452A | B | |
| 1449 | 0636 | 0717 | 1450A | B | | | | 1150 | 1330 | 1453A | B | |
| 1450 | 0806 | 0811 | 1450A | B | | 083519 | W136.3 | 1335 | 1515 | 1454A | B | |
| 1450 | 0818 | 0905 | 1451A | B | | | | 1520 | 1659 | 1455A | B | |
| 1451 | 0953 | 0959 | 1451A | B | | 102236 | W163.1 | 1704 | 1840 | 1456A | B | |
| 1451 | 1004 | 1052 | 1452A | B | | | | 1845 | 2028 | 1457A | B | |
| 1452 | 1150 | 1239 | 1453A | B | | 120952 | E170.1 | 2033 | 2217 | 1458A | B | |
| 1453 | 1335 | 1426 | 1454A | B | | 135709 | E143.3 | 2219 | 0017 | 1462R | A | |
| 1454 | 1520 | 1614 | 1455A | B | | 154425 | E116.5 | | | | | |
| 1455 | 1704 | 1801 | 1456A | B | | 173142 | E089.6 | | | | | |
| 1456 | 1850 | 1948 | 1457A | B | | 191859 | E062.8 | | | | | |
| 1457 | 2037 | 2136 | 1458A | B | | 210615 | E036.0 | | | | | |
| 1458 | 2224 | 2323 | 1462R | A | | 225332 | E009.2 | | | | | |
| 1459 | | | | | | 004048 | W017.6 | | | | | |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 30 MARCH 1973

THIR

| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG |
|---|---|---|---|---|---|---|---|
| 1460 | | | | | | 013429 | E149.0 |
| 1461 | 0257 | 0346 | 1461R | B | | 032146 | E122.1 |
| 1462 | 0445 | 0533 | 1462R | B | | 050902 | E095.3 |
| 1463 | 0632 | 0721 | 1463A | B | | 065619 | E068.5 |
| 1464 | 0819 | 0908 | 1464A | B | | 084336 | E041.7 |
| 1465 | 1007 | 1055 | 1465A | B | | 103052 | E014.9 |
| 1466 | 1154 | 1243 | 1466A | B | | 121809 | W012.0 |
| 1467 | 1341 | 1429 | 1467A | B | | 140525 | W038.8 |
| 1468 | 1528 | 1615 | 1468A | B | | 155242 | W065.6 |
| 1469 | 1716 | 1800 | 1469A | B | | 173958 | W092.4 |
| 1470 | 1903 | 1945 | 1470A | B | | 192715 | W119.2 |
| 1471 | 2050 | 2132 | 1471A | B | | 211431 | W146.1 |
| 1472 | 2238 | 2319 | 1472A | B | | 230148 | W172.9 |

NIGHTTIME THIR

| | | | | | | DESC. NODE | |
|---|---|---|---|---|---|---|---|
| 1460 | 0215 | 0257 | 1461R | B | | 022805 | W044.5 |
| 1461 | 0346 | 0400 | 1461R | B | | 041521 | W071.3 |
| 1461 | 0406 | 0445 | 1462R | B | | | |
| 1462 | 0533 | 0543 | 1462R | B | | 060238 | W098.1 |
| 1462 | 0550 | 0632 | 1463A | B | | | |
| 1463 | 0721 | 0728 | 1463A | B | | 074954 | W124.9 |
| 1463 | 0733 | 0819 | 1464A | B | | | |
| 1464 | 0924 | 1007 | 1465A | B | | 093711 | W151.7 |
| 1465 | 1104 | 1154 | 1466A | B | | 112428 | W178.6 |
| 1466 | 1249 | 1341 | 1467A | B | | 131144 | E154.7 |
| 1467 | 1435 | 1528 | 1468A | B | | 145901 | E127.8 |
| 1468 | 1621 | 1716 | 1469A | B | | 164617 | E101.0 |
| 1469 | 1805 | 1903 | 1470A | B | | 183334 | E074.2 |
| 1470 | 1952 | 2050 | 1471A | B | | 202050 | E047.4 |
| 1471 | 2139 | 2238 | 1472A | B | | 220807 | E020.6 |
| 1472 | | | | | | 235523 | W006.3 |

ESMR

| DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
|---|---|---|---|---|
| 1461 | 0216 | 0401 | 1461R | B |
| 1462 | 0406 | 0544 | 1462R | B |
| 1463 | 0550 | 0729 | 1463A | B |
| 1464 | 0733 | 0913 | 1464A | B |
| 1465 | 0918 | 1100 | 1465A | B |
| 1466 | 1104 | 1244 | 1466A | B |
| 1467 | 1249 | 1431 | 1467A | B |
| 1468 | 1435 | 1616 | 1468A | B |
| 1469 | 1621 | 1801 | 1469A | B |
| 1470 | 1805 | 1946 | 1470A | B |
| 1471 | 1950 | 2133 | 1471A | B |
| 1472 | 2138 | 2321 | 1472A | B |

NEMS - SCR - ITPR

| | | | | |
|---|---|---|---|---|
| 0215 | 0401 | 1461R | B |
| 0406 | 0544 | 1462R | B |
| 0550 | 0729 | 1463A | B |
| 0733 | 0913 | 1464A | B |
| 0918 | 1059 | 1465A | B |
| 1104 | 1244 | 1466A | B |
| 1249 | 1430 | 1467A | B |
| 1435 | 1616 | 1468A | B |
| 1621 | 1801 | 1469A | B |
| 1805 | 1946 | 1470A | B |
| 1950 | 2133 | 1471A | B |
| 2138 | 2320 | 1472A | B |

# TABLE 2-2
# DATA AVAILABILITY ON-OFF TIMES
# 31 MARCH 1973

| THIR | | | | | | | | ESMR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATA ORBIT | 11.5 + 6.7 ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S | THIR GRID CORR LALO | ASC. AND DESC. NODE TIME HRMNSS | LONG DEG | DATA ORBIT | ON HRMN | OFF HRMN | INT ORBIT + STDN | H D R S |
| | DAYTIME THIR | | | | | ASC. NODE | | | | | | |
| 1473 | | | | | | 004904 | E160.3 | 1474 | 0121 | 0312 | 1475R | A |
| 1474 | 0212 | 0301 | 1475R | A | | 023621 | E133.5 | 1475 | 0312 | 0458 | 1475R | B |
| 1475 | 0359 | 0448 | 1475R | B | | 042338 | E106.7 | 1476 | 0505 | 0646 | 1476R | B |
| 1476 | 0547 | 0635 | 1476R | B | | 061054 | E079.8 | 1477 | 0652 | 0828 | 1477A | B |
| 1477 | 0734 | 0823 | 1477A | B | | 075811 | E053.0 | 1478 | 0833 | 1015 | 1478A | B |
| 1478 | 0921 | 1010 | 1478A | B | | 094527 | E026.2 | 1479 | 1019 | 1201 | 1479A | B |
| 1479 | 1109 | 1157 | 1479A | B | | 113244 | W000.6 | 1480 | 1205 | 1348 | 1480A | B |
| 1480 | 1256 | 1345 | 1480A | B | | 132000 | W027.5 | 1481 | 1352 | 1533 | 1481A | B |
| 1481 | 1443 | 1532 | 1481A | B | | 150717 | W054.3 | 1482 | 1538 | 1716 | 1482A | B |
| 1482 | 1630 | 1715 | 1482A | B | | 165433 | W081.1 | 1483 | 1721 | 1900 | 1483A | B |
| 1483 | 1818 | 1859 | 1483A | B | | 184150 | W107.9 | 1484 | 1905 | 2046 | 1484A | B |
| 1484 | 2005 | 2045 | 1484A | B | | 202906 | W134.7 | 1485 | 2051 | 2234 | 1485A | B |
| 1485 | 2152 | 2233 | 1485A | B | | 221623 | W161.5 | | | | | |
| 1485 | 2235 | 2241 | 1488R | A | | | | | | | | |
| | NIGHTTIME THIR | | | | | DESC. NODE | | | NEMS - SCR - ITPR | | | |
| 1473 | 0121 | 0212 | 1475R | A | | 014240 | W033.1 | | 0121 | 0512 | 1475R | A |
| 1474 | 0301 | 0311 | 1475R | A | | 032957 | W059.9 | | 0313 | 0458 | 1475R | B |
| 1474 | 0313 | 0359 | 1475R | B | | | | | 0505 | 0646 | 1476R | B |
| 1475 | 0448 | 0459 | 1475R | B | | 051713 | W086.7 | | 0651 | 0827 | 1477A | B |
| 1475 | 0505 | 0547 | 1476R | B | | | | | 0832 | 1014 | 1478A | B |
| 1476 | 0635 | 0645 | 1476R | B | | 070430 | W113.5 | | 1019 | 1201 | 1479A | B |
| 1476 | 0651 | 0734 | 1477A | B | | | | | 1205 | 1348 | 1480A | B |
| 1477 | 0832 | 0921 | 1478A | B | | 085146 | W140.4 | | 1353 | 1533 | 1481A | B |
| 1478 | 1019 | 1109 | 1479A | B | | 103903 | W167.2 | | 1538 | 1716 | 1482A | B |
| 1479 | 1206 | 1256 | 1480A | B | | 122619 | E166.0 | | 1721 | 1900 | 1483A | B |
| 1480 | 1353 | 1443 | 1481A | B | | 141336 | E139.2 | | 1905 | 2046 | 1484A | B |
| 1481 | 1538 | 1630 | 1482A | B | | 160052 | E112.4 | | 2051 | 2234 | 1485A | B |
| 1482 | 1721 | 1818 | 1483A | B | | 174809 | E085.5 | | 2235 | 0033 | 1488R | A |
| 1483 | 1906 | 2005 | 1484A | B | | 193526 | E058.7 | | | | | |
| 1484 | 2054 | 2152 | 1485A | B | | 212242 | E031.9 | | | | | |
| 1485 | 2241 | 2340 | 1488R | A | | 230959 | E005.1 | | | | | |

# SECTION 3

## ELECTRICALLY SCANNING MICROWAVE RADIOMETER DISPLAYS

One ESMR display per day has been selected for presentation in this section. All ESMR coverage times are listed in the Data Availability On-Off Times (Table 2-2). Each display contains the following items:

Nimbus 5 ESMR

This identifies the satellite (Nimbus 5) and the experiment (ESMR).

Date

This identifies the Greenwich day, month, and year the data is recorded.

Data Orbit

This data orbit number identifies only the last data orbit on each display. Usually parts of two data orbits are on the same display, since all data acquired during each satellite interrogation is presented on one 4 x 5-inch negative. In general, nighttime data is on the left and daytime data is on the right.

Program

No Program number is identified on these displays. Its intended use was to identify the appropriate table which would list the temperature interval for each gray level in the gray scale. The program used during this catalog period (and during the first catalog period) is listed in Table 3-1.

Gray Scale

A single 11-step gray scale serves to define ESMR brightness temperatures in all three swaths, by the assignment of a different brightness temperature range to each step for each swath. Table 3-1 defines the gray scale table used during this catalog period.

Image Swaths (1,2,3)

A set of three swaths, labeled 1, 2, and 3, separates the same recorded data into three temperature intervals (defined in Table 3-1). The right set of three swaths is a continuation of the left set and is offset because of the limitations of the 4 x 5-inch film format. The three swath pres-

TABLE 3-1

ESMR GRAY SCALE STEPS VERSUS BRIGHTNESS TEMPERATURE
FOR EACH OF THE THREE ESMR SWATHS IN
THE ESMR PICTORIAL DISPLAYS
(Temperatures in °K)

| | | TABLE 1 Orbit 104 through 502 | | | TABLE 2 Orbit 503 through 1485 | | |
|---|---|---|---|---|---|---|---|
| Swath | | 1 | 2 | 3 | 1 | 2 | 3 |
| Gray Scale Number | | | | | | | |
| (black) | 1 | > 200 | > 262 | > 280 | > 210 | > 266 | > 290 |
| | 2 | 190-200 | 256-262 | 277-280 | 202-210 | 258-266 | 286-290 |
| | 3 | 180-190 | 250-256 | 274-277 | 194-202 | 250-258 | 282-286 |
| | 4 | 170-180 | 240-250 | 271-274 | 186-194 | 242-250 | 278-282 |
| | 5 | 160-170 | 230-240 | 268-271 | 178-186 | 234-242 | 274-278 |
| | 6 | 150-160 | 220-230 | 265-268 | 170-178 | 226-234 | 270-274 |
| | 7 | 140-150 | 210-220 | 262-265 | 162-170 | 218-226 | 266-270 |
| | 8 | 130-140 | 200-210 | 259-262 | 154-162 | 210-218 | 262-266 |
| | 9 | 120-130 | 190-200 | 256-259 | 146-154 | 202-210 | 258-262 |
| | 10 | 110-120 | 180-190 | 253-256 | 138-146 | 194-202 | 254-258 |
| (white) | 11 | < 110 | < 180 | < 253 | < 138 | < 194 | < 254 |

entation is used because it shortens the temperature ranges spanned by each step of the gray scale, and, therefore, permits discrimination of various meteorological and terrestrial phenomena.

Significant in swath 1 are the areas of atmospheric moisture and rainfall over oceans. Swath 2 brightness temperature range discriminates between new and multi-year ice and, over oceans, shows only rainfall areas. The high brightness temperatures of swath 3 outline some land areas of high soil moisture content or snow cover, but oceans lose almost all their temperature contrasts. (The swath 3 information was lost after 1110 GMT on orbit 1062, 28 February 1973, because of the instrument malfunction.)

Time Code Index

The Time Code Index, in hours and minutes (GMT), is adjacent to the gray scale. The top number in each set is for the left group of three swaths; the bottom number in each set is for the right group of three swaths. Time bars are spaced at five-minute intervals. The same time bars are used for the left and right swaths. The top or bottom time code index determines the time for each time bar.

Grids

Two grids, labeled GRID L and GRID R, identify the geographic coordinates for the imagery of the left (L) and the right (R) sets of swaths, respectively. Latitude lines are spaced at 10-degree intervals. Longitude lines are spaced at 10-degree intervals to 60 degrees north and south of the equator, and at 20-degree intervals from 60 to 80 degrees north and south. The equator (EQ), North Pole (NP), and South Pole (SP) are labeled, as well as longitude values at the equator and at 30 and 60 degrees north and south of the equator.

Swath Display Program

The antenna gain function is different at each beam position. Thus, to present a uniform surface temperature as the same shade of gray across a scan track requires that the output voltage at each antenna position be adjusted for its beam position and output voltage value. If the corrections are not precise, vertical bands will be evident in the ESMR pictorial displays.

Three different sets of calibration constants (Display Format Programs) were used during the first two months of operation to eliminate these vertical bands. Two additional programs were used during this second catalog period, after the instrument malfunction of 28 February 1973. Volume 1 of this catalog series illustrates the vertical banding produced by the first three programs, while the images in this section illustrate the banding produced by the last two. Table 3-2 shows when each program was used. Two gray scales versus brightness temperature tables have been used as shown in Table 3-2, with values for each shown in Table 3-1.

The brightness temperature accuracy varied with each Display Format Program. With display Program 1, which uses prelaunch calibration constants, the digital brightness temperature values have about ±20°K accuracy. With a change to postlaunch calibration constants, Programs 2 and 4 produce about ±2° to 5°K temperature value accuracies. Of course, with Programs 2 and 4, the displayed temperature values are accurate only within the limits of the temperature range of each step of

the gray scales as defined in Table 3-1. Display Programs 5 and 6, used after the instrument malfunction of 28 February 1973, are considered to produce ±10°K temperature accuracies on the image displays.

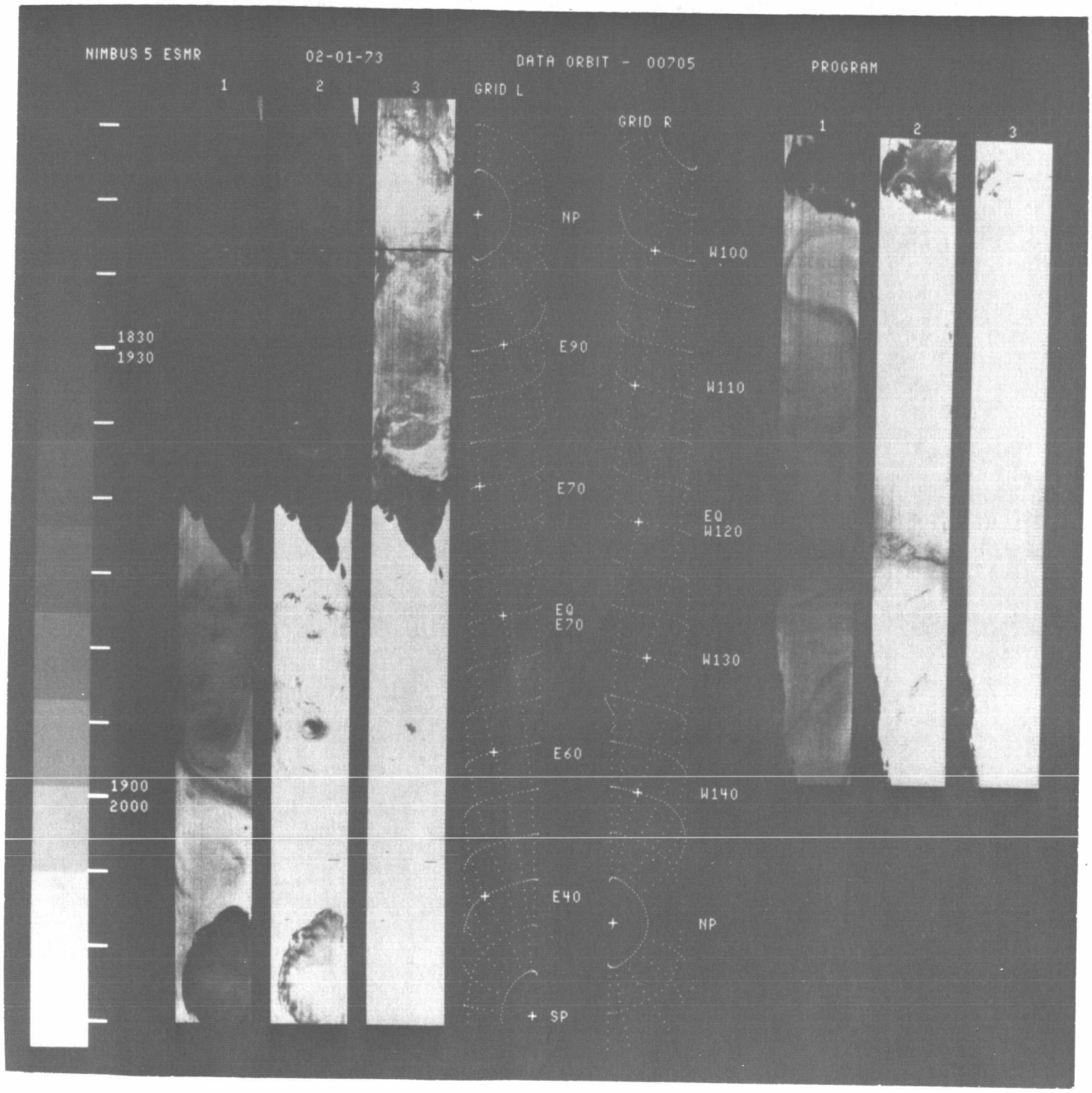
A description of the ESMR experiment may be found in The Nimbus 5 User's Guide, Section 4, and instructions for ordering the data both pictorial and digital are in Section 1.7 of that Guide.

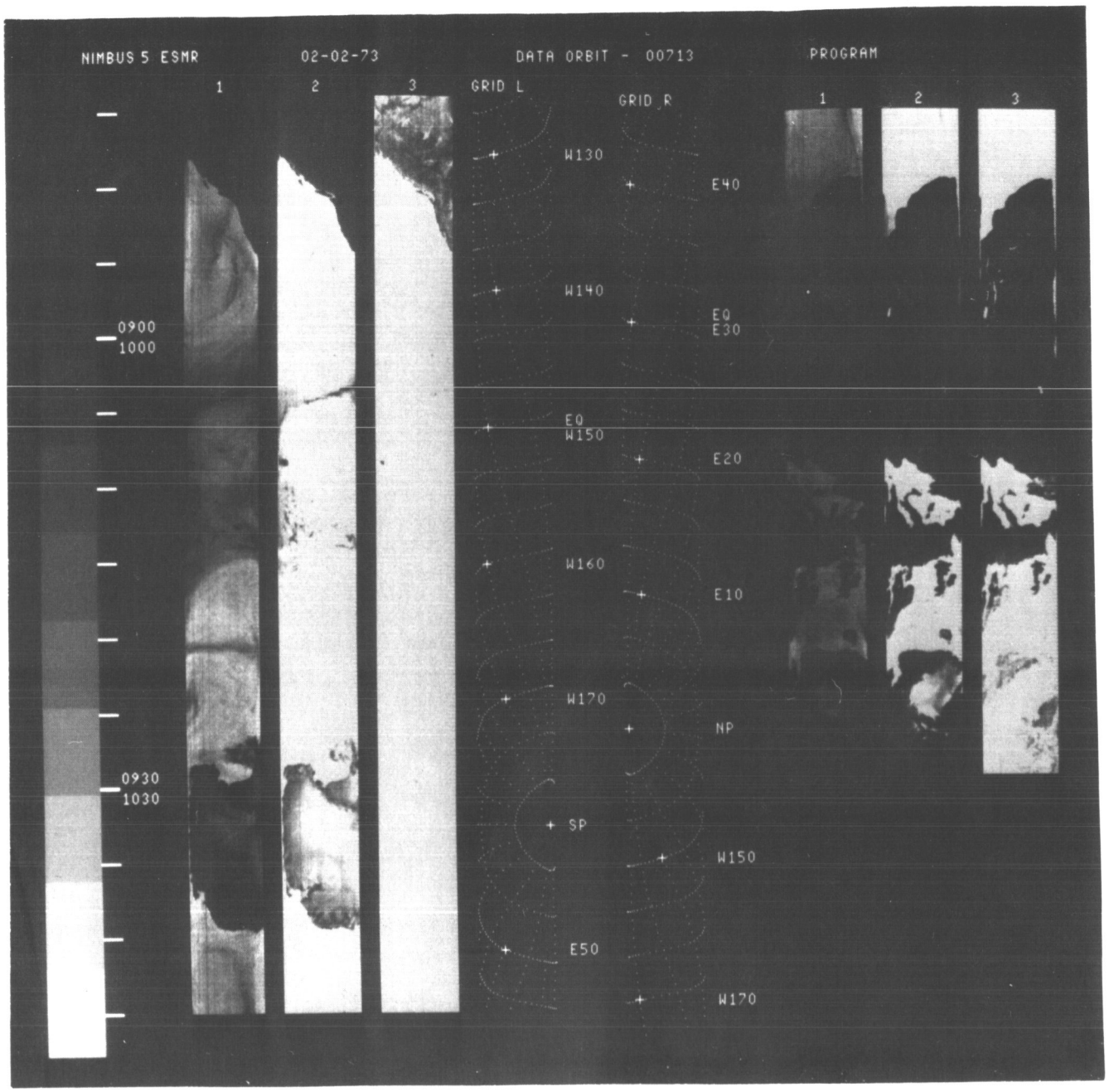
TABLE 3-2

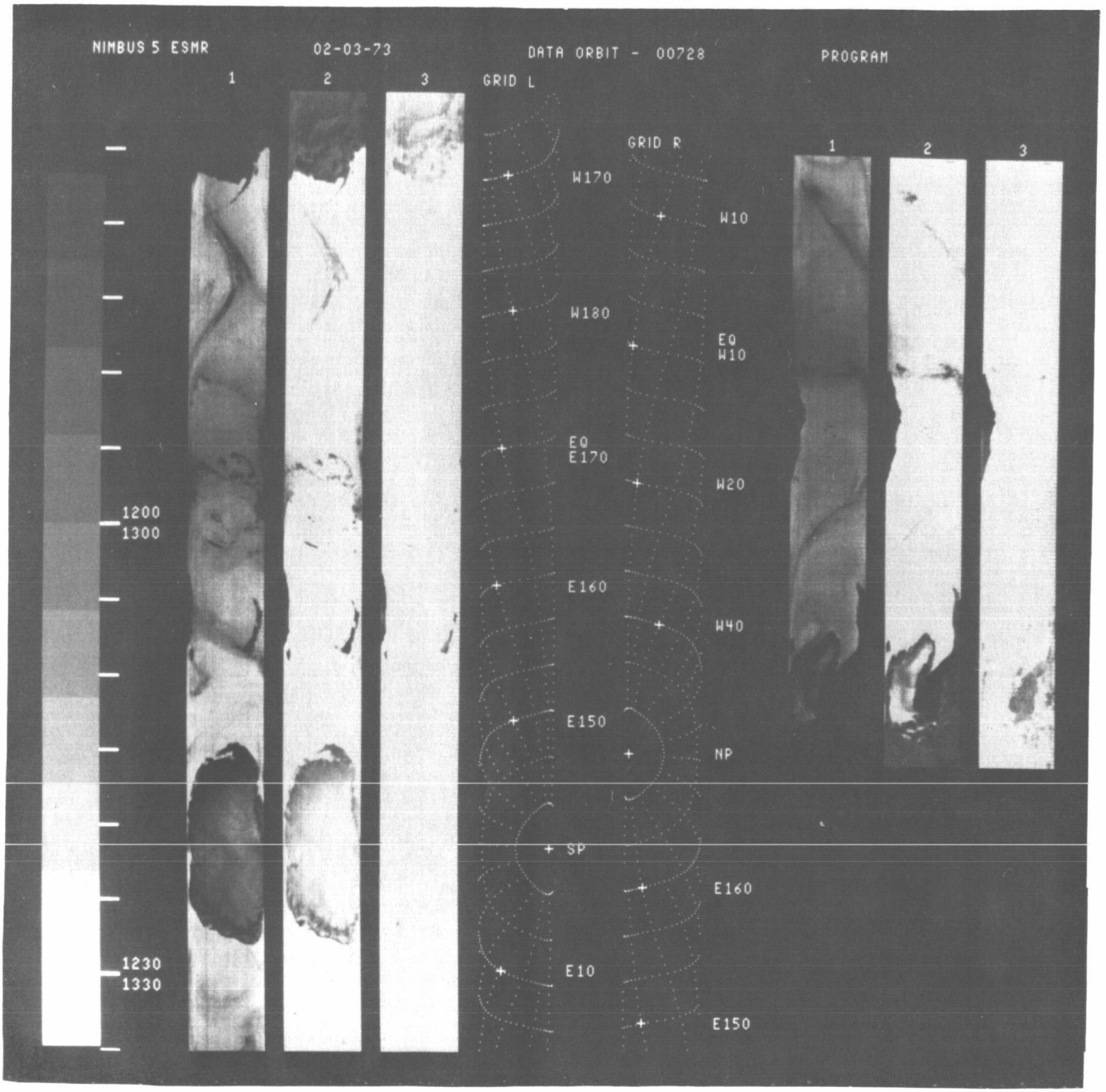
ESMR DISPLAY FORMAT AND GRAY SCALE
BRIGHTNESS TEMPERATURE PROGRAMS

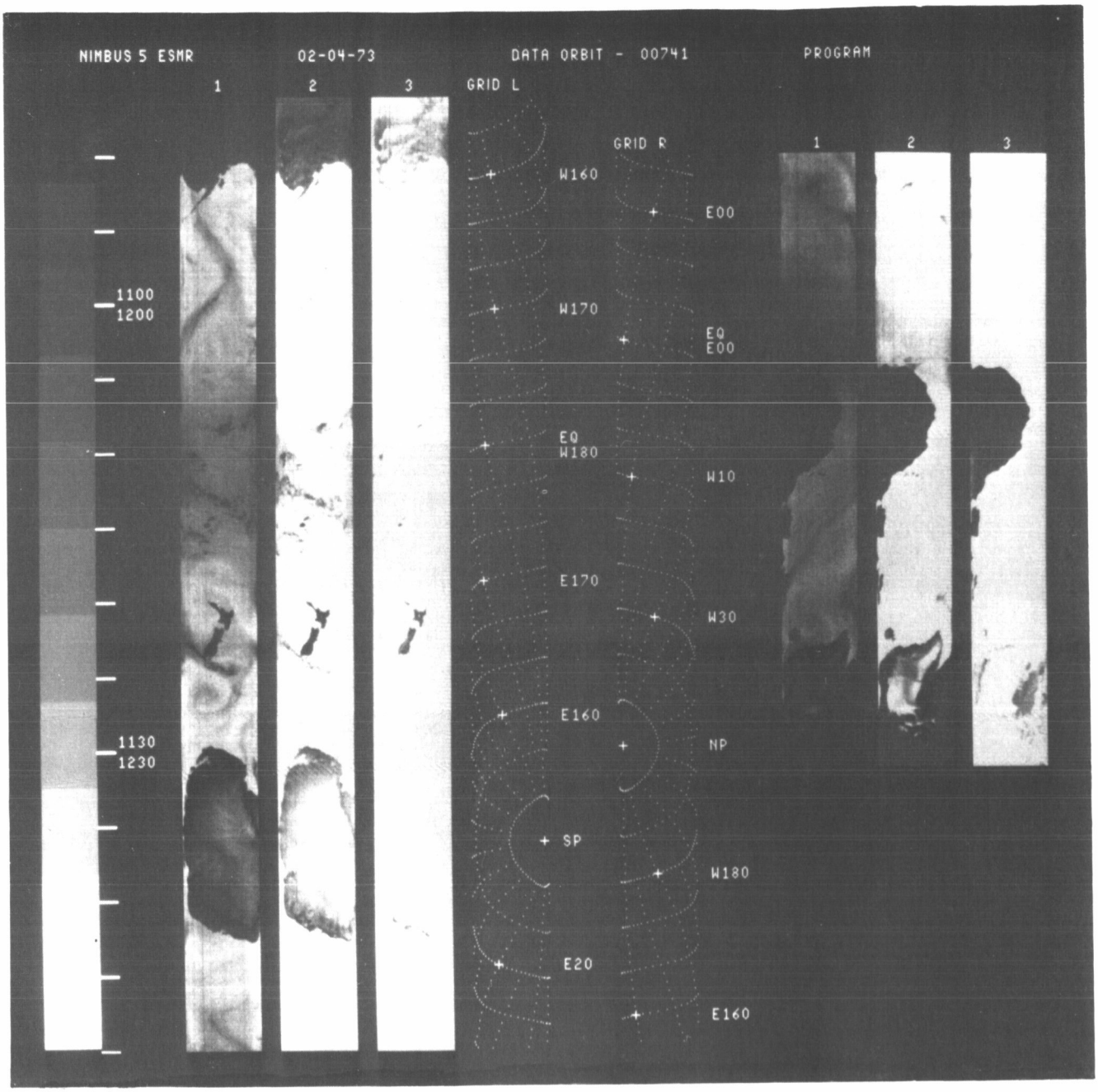
| Date | Orbit | Display Format Program | Gray Scale Brightness Temperature Table |
|---|---|---|---|
| 19 Dec - 17 Jan | 104-502 | 1 | 1 |
| 17 Jan - 22 Jan | 503-566* | 2 | 2 |
| 22 Jan - 28 Feb | 567-1062 | 4 | 2 |
| 28 Feb - 5 Mar | 1063-1129 | 5 | 2 |
| 5 Mar | 1130 | 6 | 2 |
| 5 Mar | 1131-1134 | 5 | 2 |
| 5 Mar - 31 Mar | 1135-1485 | 6 | 2 |

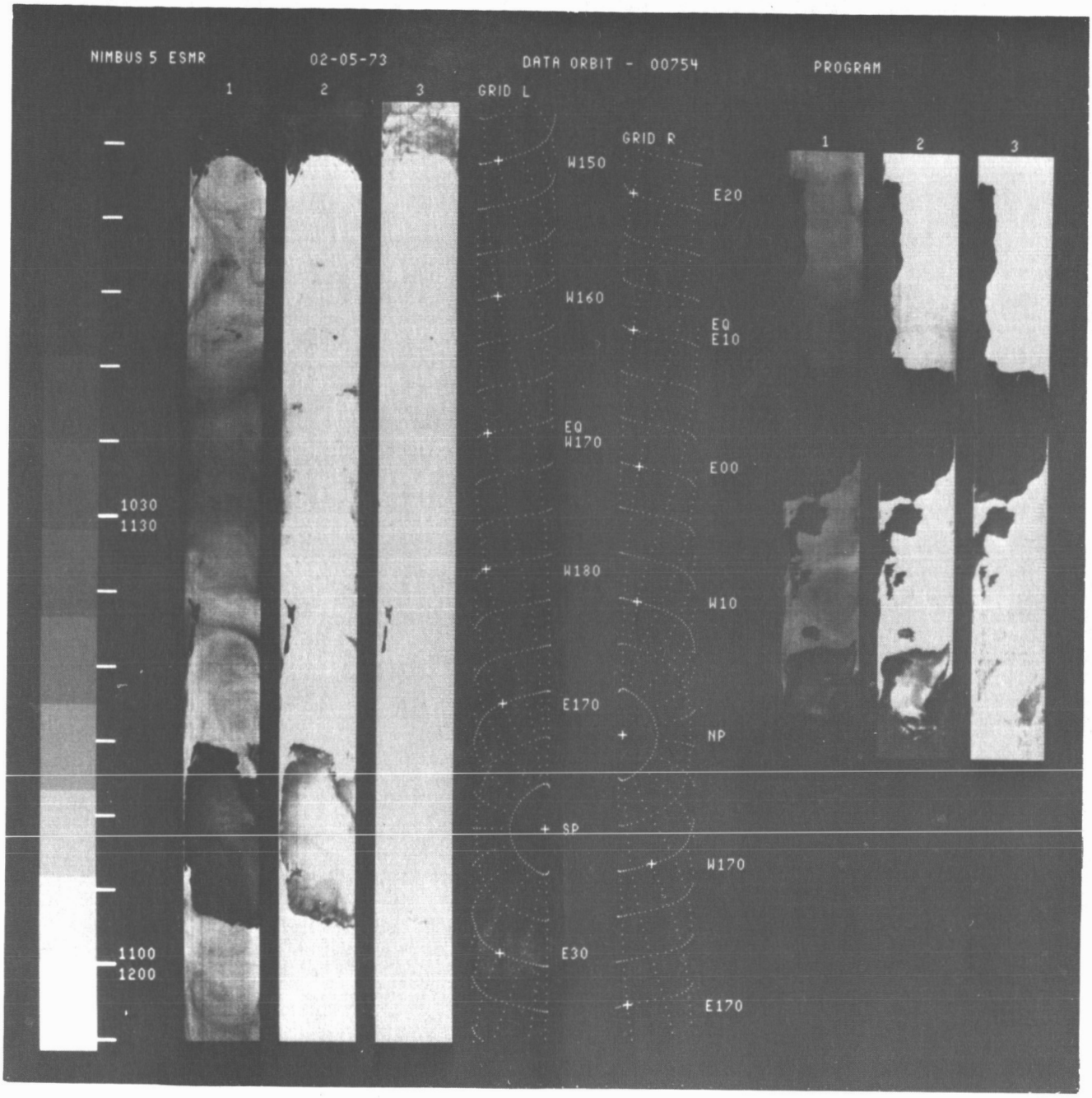
*550 & 551, Display Format 4

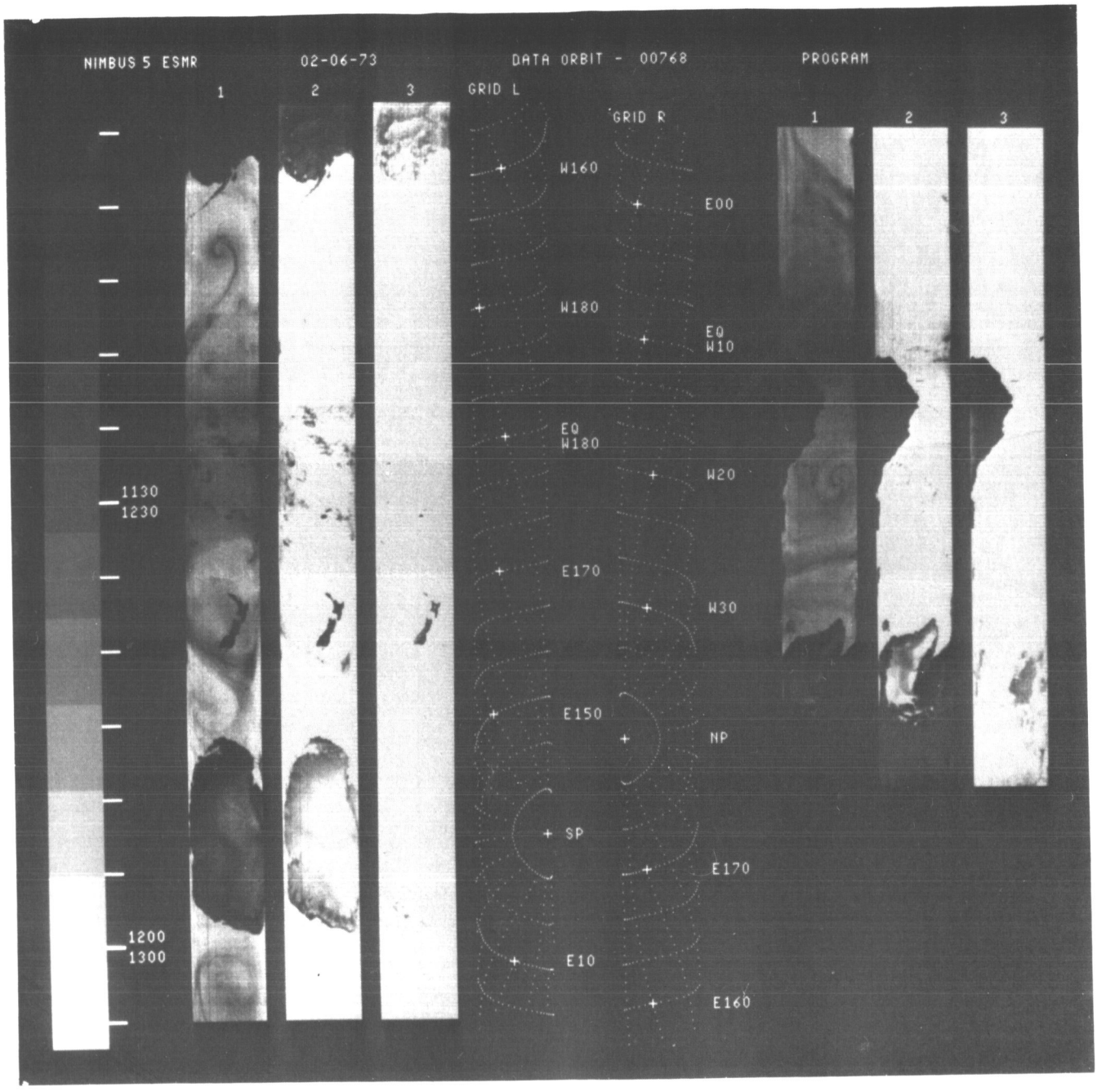

NIMBUS 5 ESMR
02-01-73
DATA ORBIT - 00705
PROGRAM
1
2
3
GRID L
GRID R
1830
1930
1900
2000
NP
W100
E90
W110
E70
EQ
W120
EQ
E70
W130
E60
W140
E40
NP
SP


NIMBUS 5 ESMR
02-02-73
DATA ORBIT - 00713
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
W130
E40
W140
EQ
E30
0900
1000
EQ
W150
E20
W160
E10
W170
NP
0930
1030
SP
W150
E50
W170

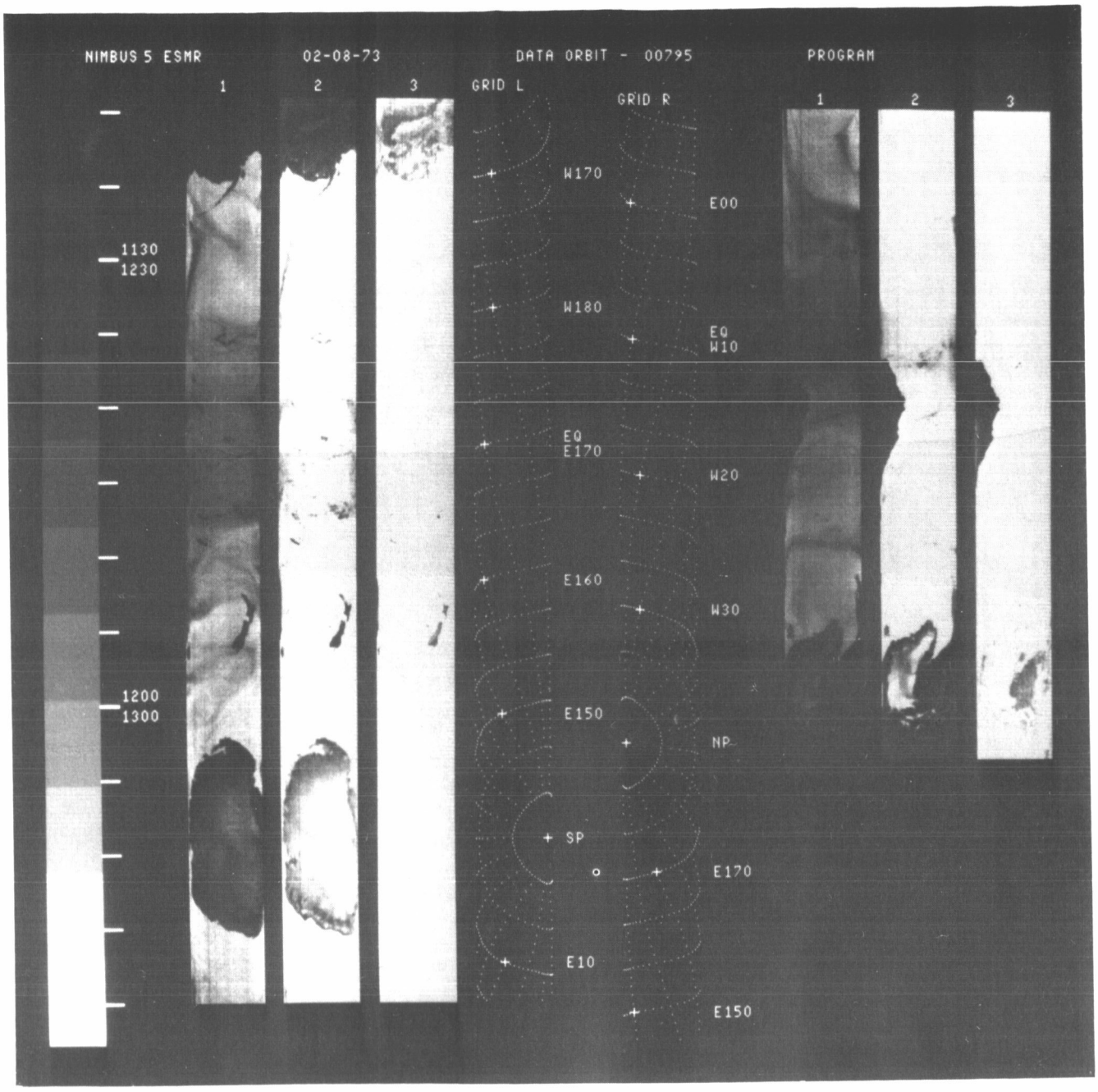

NIMBUS 5 ESMR
02-03-73
DATA ORBIT - 00728
PROGRAM
1
2
3
GRID L
GRID R
W170
W10
W180
EQ
W10
EQ
E170
W20
E160
W40
E150
NP
SP
E160
E10
E150
1200
1300
1230
1330

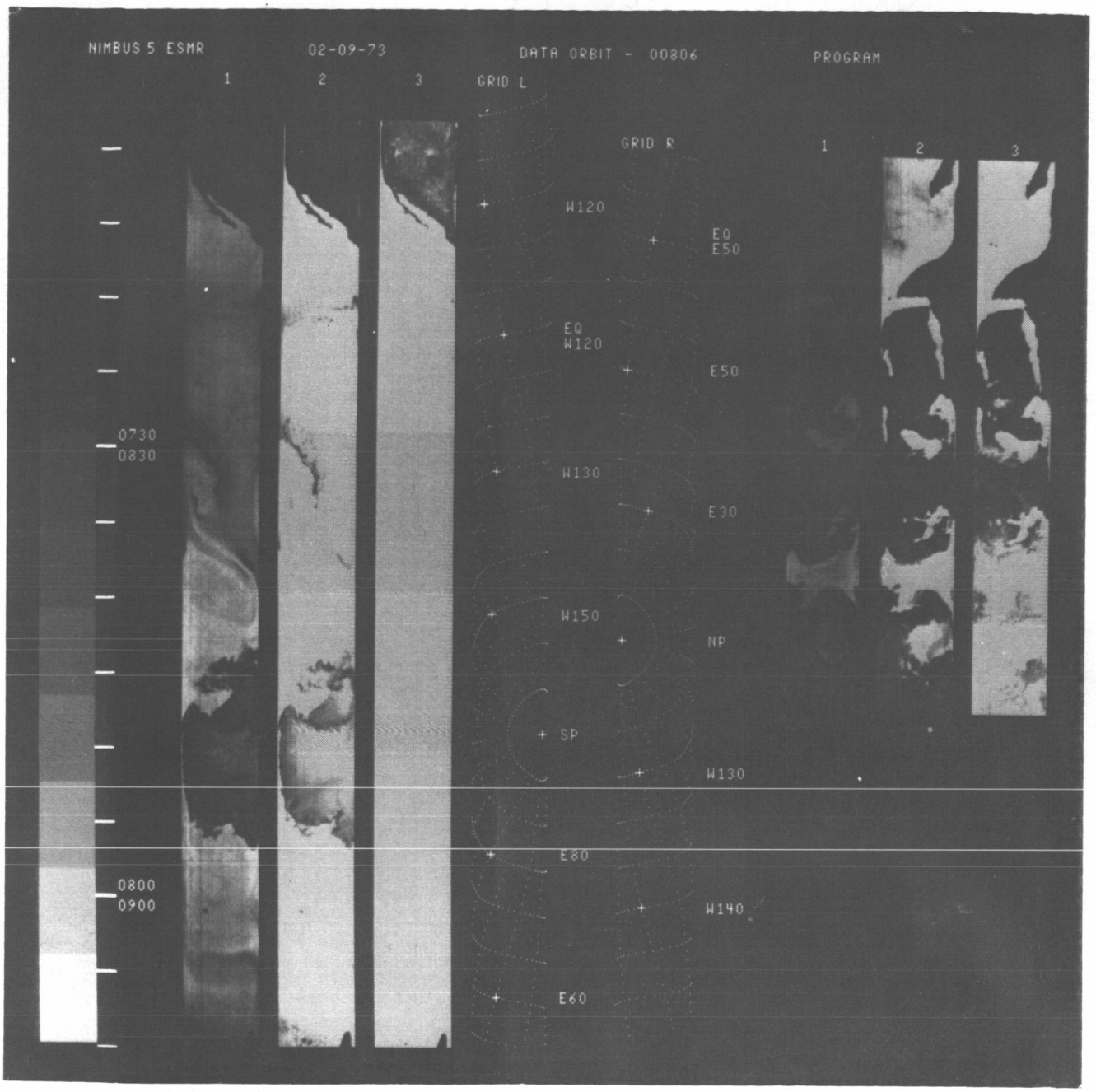

NIMBUS 5 ESMR
02-04-73
DATA ORBIT - 00741
PROGRAM
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2
3
GRID L
GRID R
1100
1200
1130
1230
W160
E00
W170
EQ
E00
EQ
W180
W10
E170
W30
E160
NP
SP
W180
E20
E160

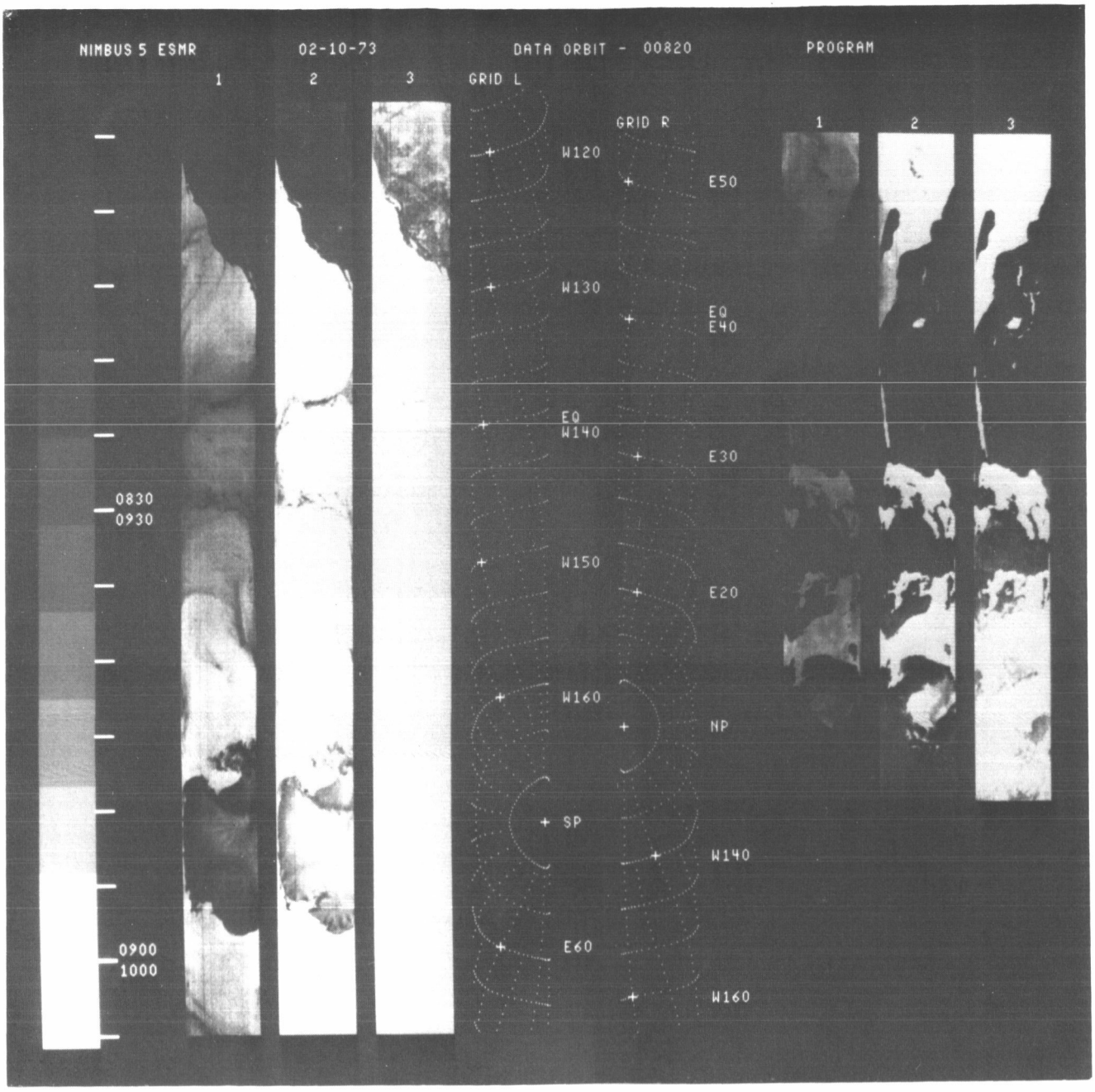

NIMBUS 5 ESMR
02-05-73
DATA ORBIT - 00754
PROGRAM
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2
3
GRID L
GRID R
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E20
W160
EQ
E10
EQ
W170
E00
W180
W10
E170
NP
SP
W170
E30
E170
1030
1130
1100
1200

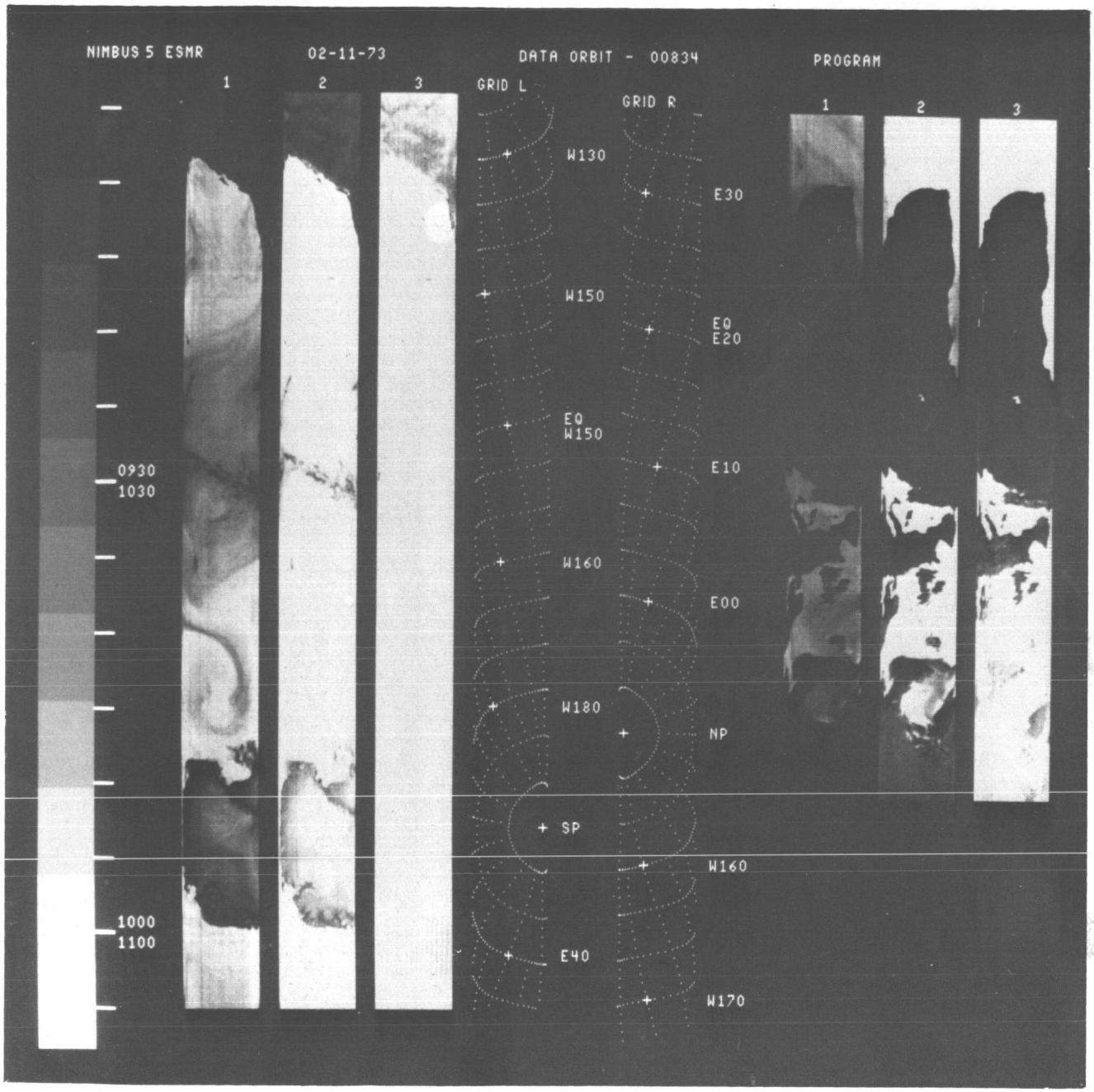

NIMBUS 5 ESMR
02-06-73
DATA ORBIT - 00768
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
W160
E00
W180
EQ
W10
EQ
W180
W20
E170
W30
E150
NP
SP
E170
E10
E160
1130
1230
1200
1300

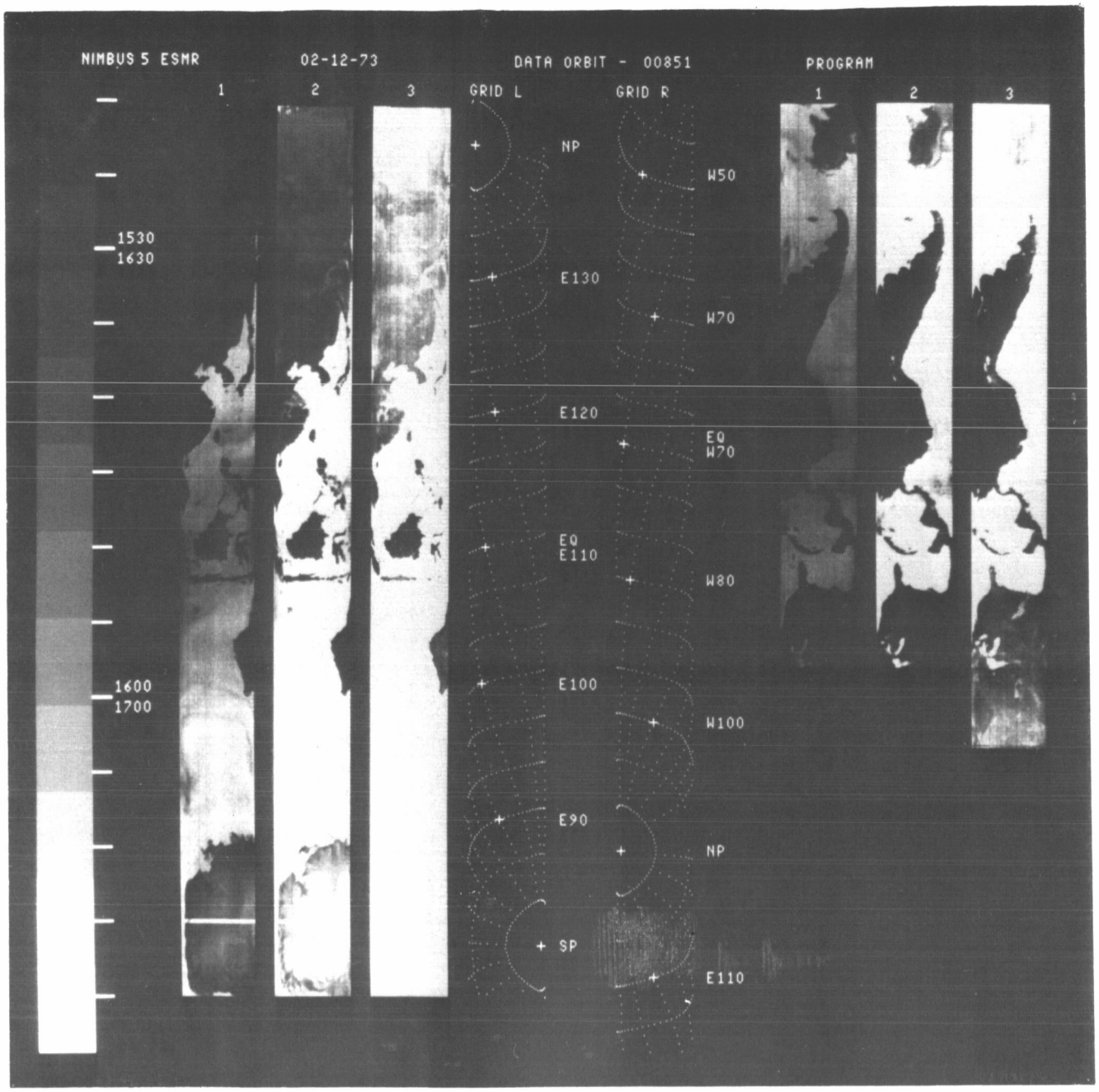

NIMBUS 5 ESMR
02-07-73
DATA ORBIT - 00777
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
W40
E120
W60
EQ
E110
EQ
W70
E100
W70
E90
W90
NP
SP
W70
E130
W80
0330
0430
0400
0500

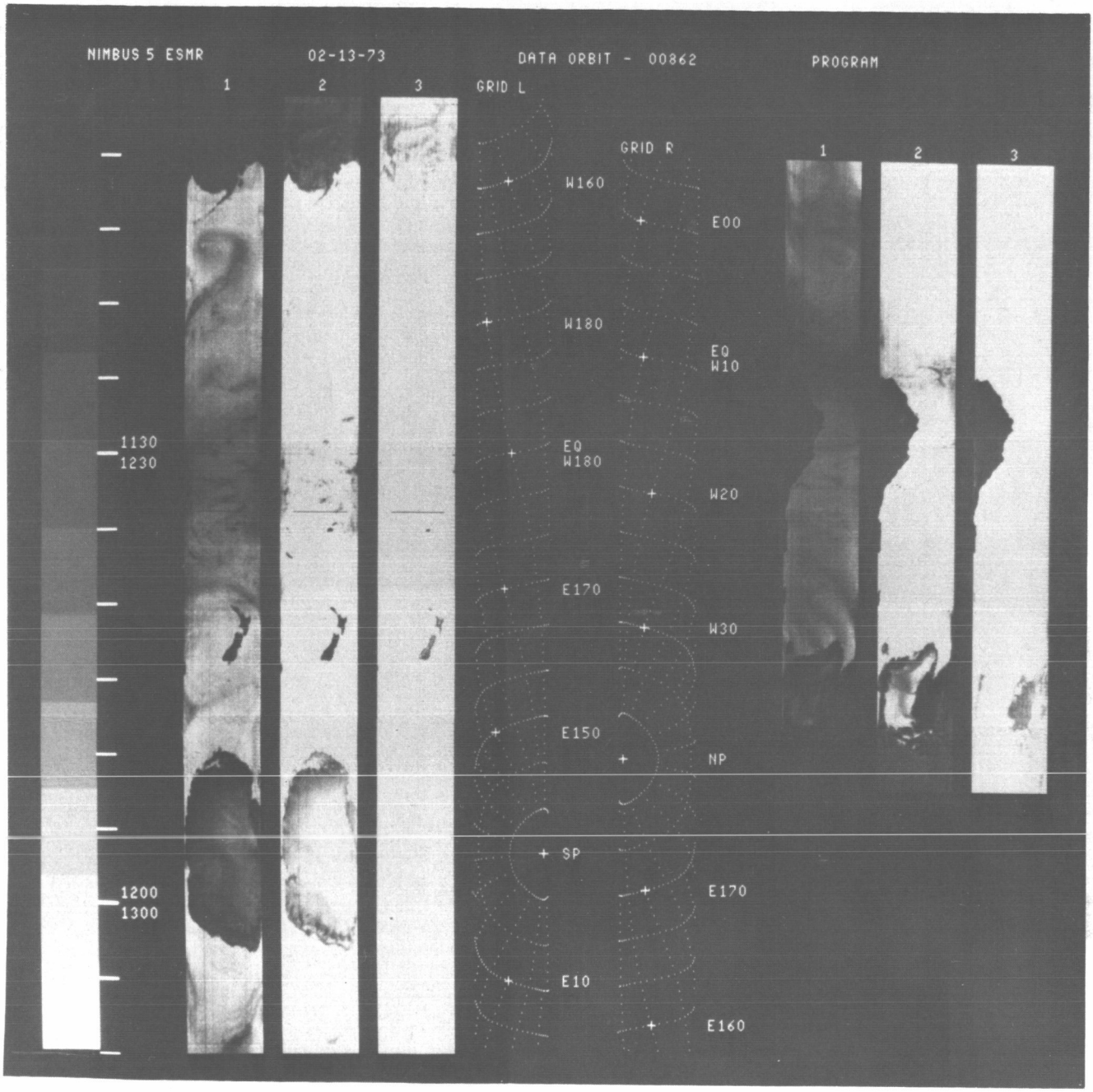

NIMBUS 5 ESMR
02-08-73
DATA ORBIT - 00795
PROGRAM
1
2
3
GRID L
GRID R
1130
1230
1200
1300
W170
E00
W180
EQ
W10
EQ
E170
W20
E160
W30
E150
NP
SP
E170
E10
E150

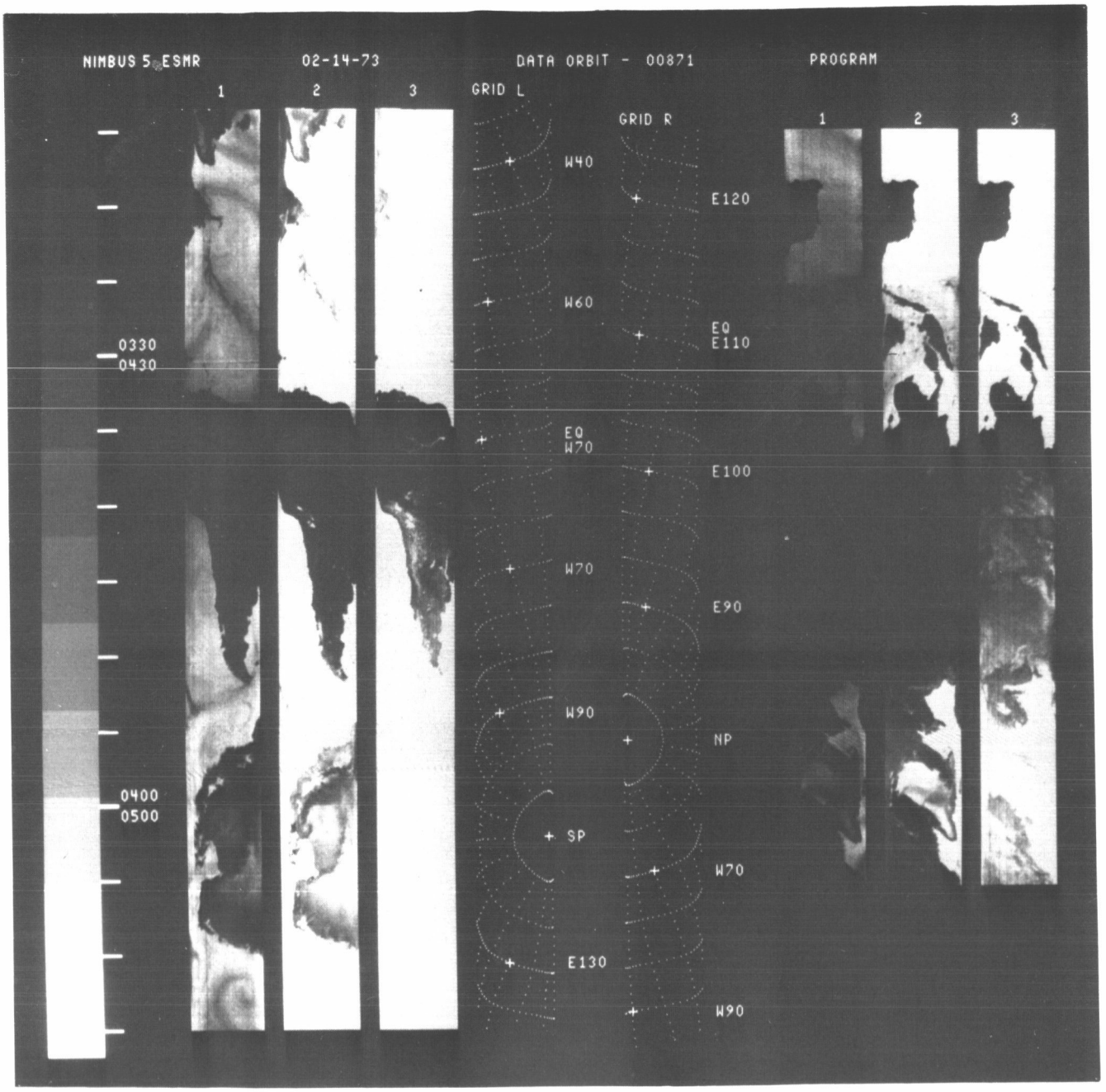

NIMBUS 5 ESMR
02-09-73
DATA ORBIT - 00806
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
W120
E0
E50
E0
W120
E50
W130
E30
W150
NP
SP
W130
E80
W140
E60
0730
0830
0800
0900

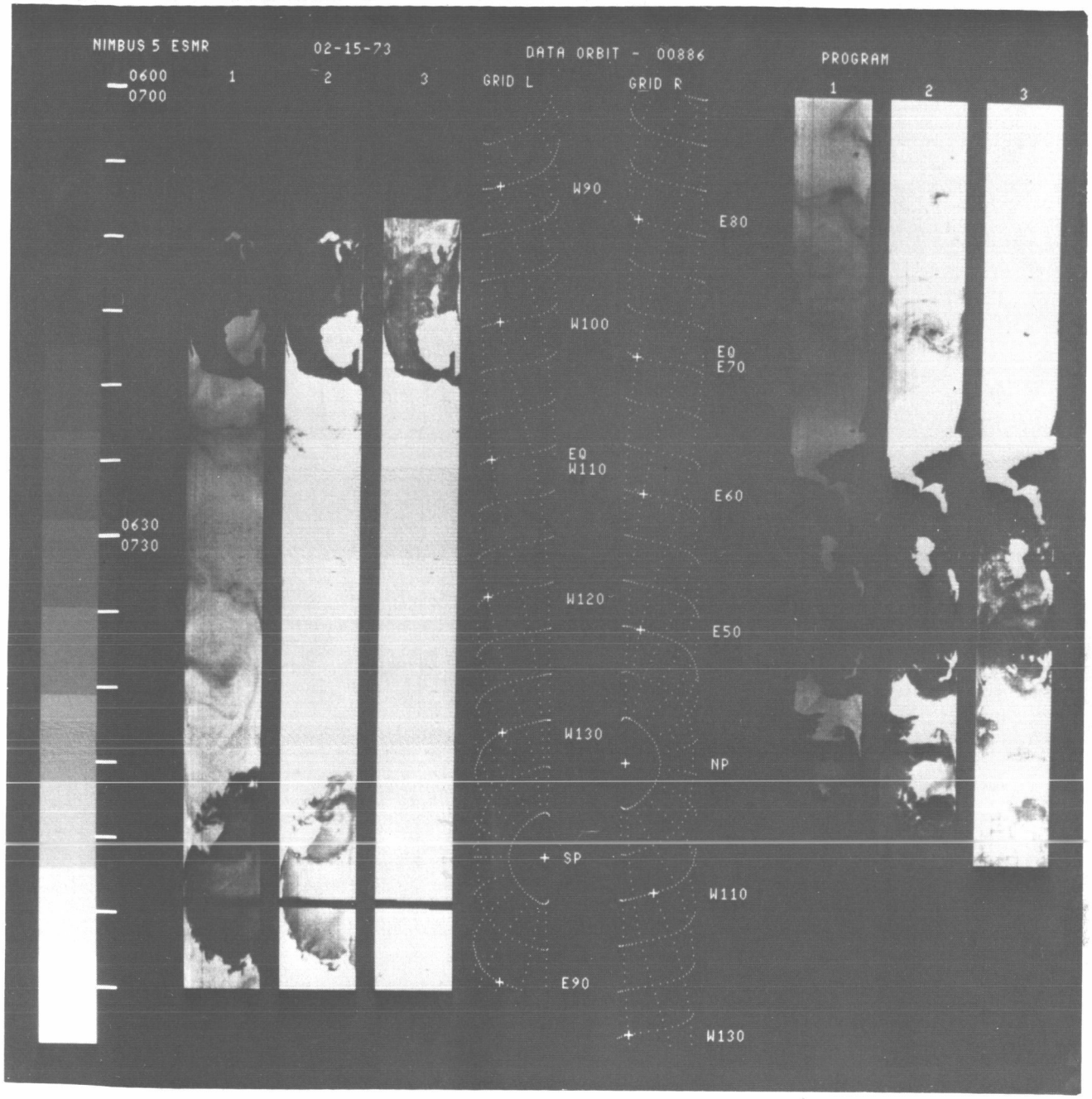

NIMBUS 5 ESMR
02-10-73
DATA ORBIT - 00820
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
W120
E50
W130
EQ
E40
EQ
W140
E30
W150
E20
W160
NP
SP
W140
E60
W160
0830
0930
0900
1000

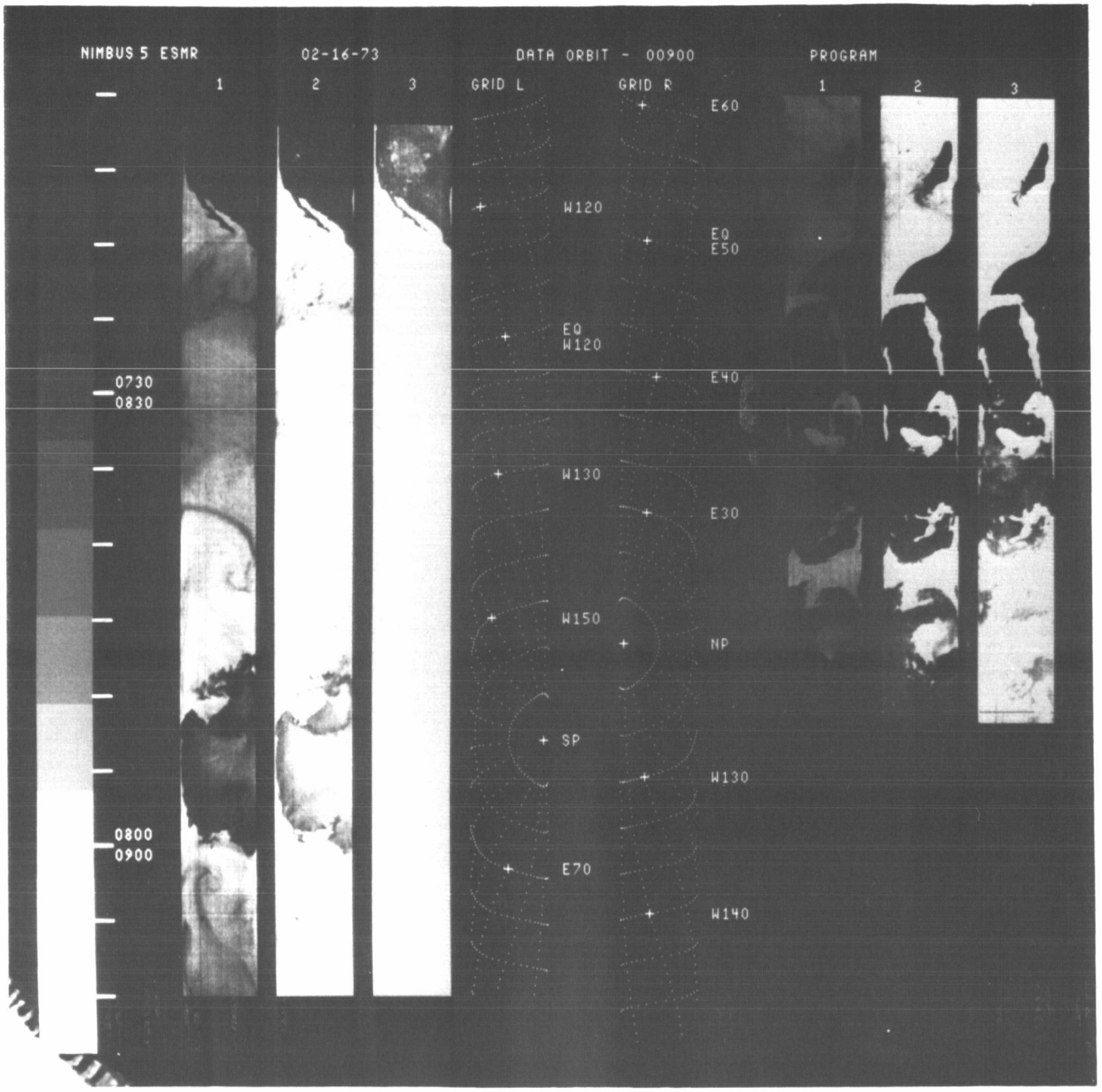

NIMBUS 5 ESMR
02-11-73
DATA ORBIT - 00834
PROGRAM
1
2
3
GRID L
GRID R
W130
E30
W150
EQ
E20
EQ
W150
E10
W160
E00
W180
NP
SP
W160
E40
W170
0930
1030
1000
1100

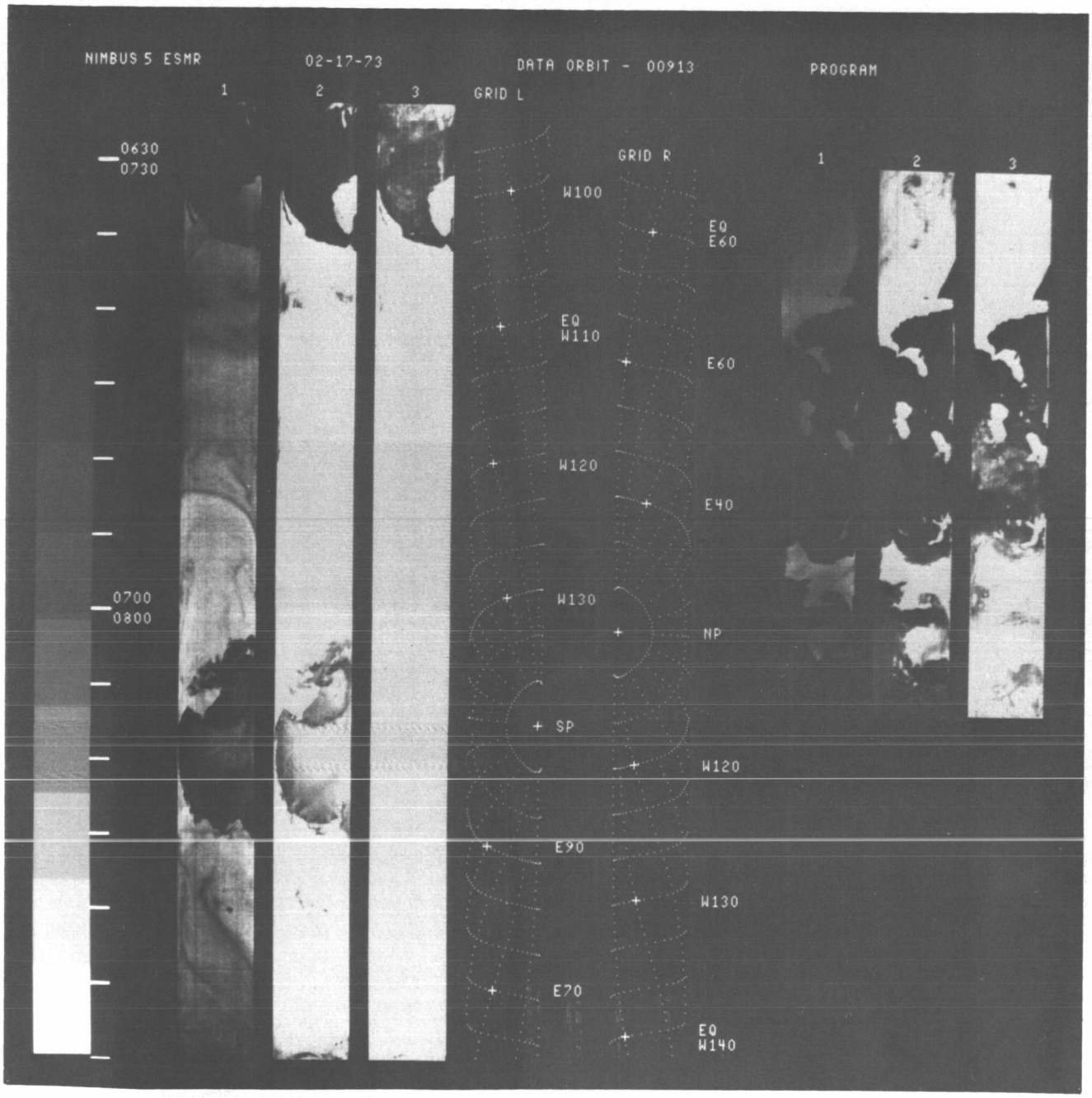

NIMBUS 5 ESMR
02-12-73
DATA ORBIT - 00851
PROGRAM
1
2
3
GRID L
GRID R
1530
1630
1600
1700
NP
W50
E130
W70
E120
EQ
W70
EQ
E110
W80
E100
W100
E90
NP
SP
E110

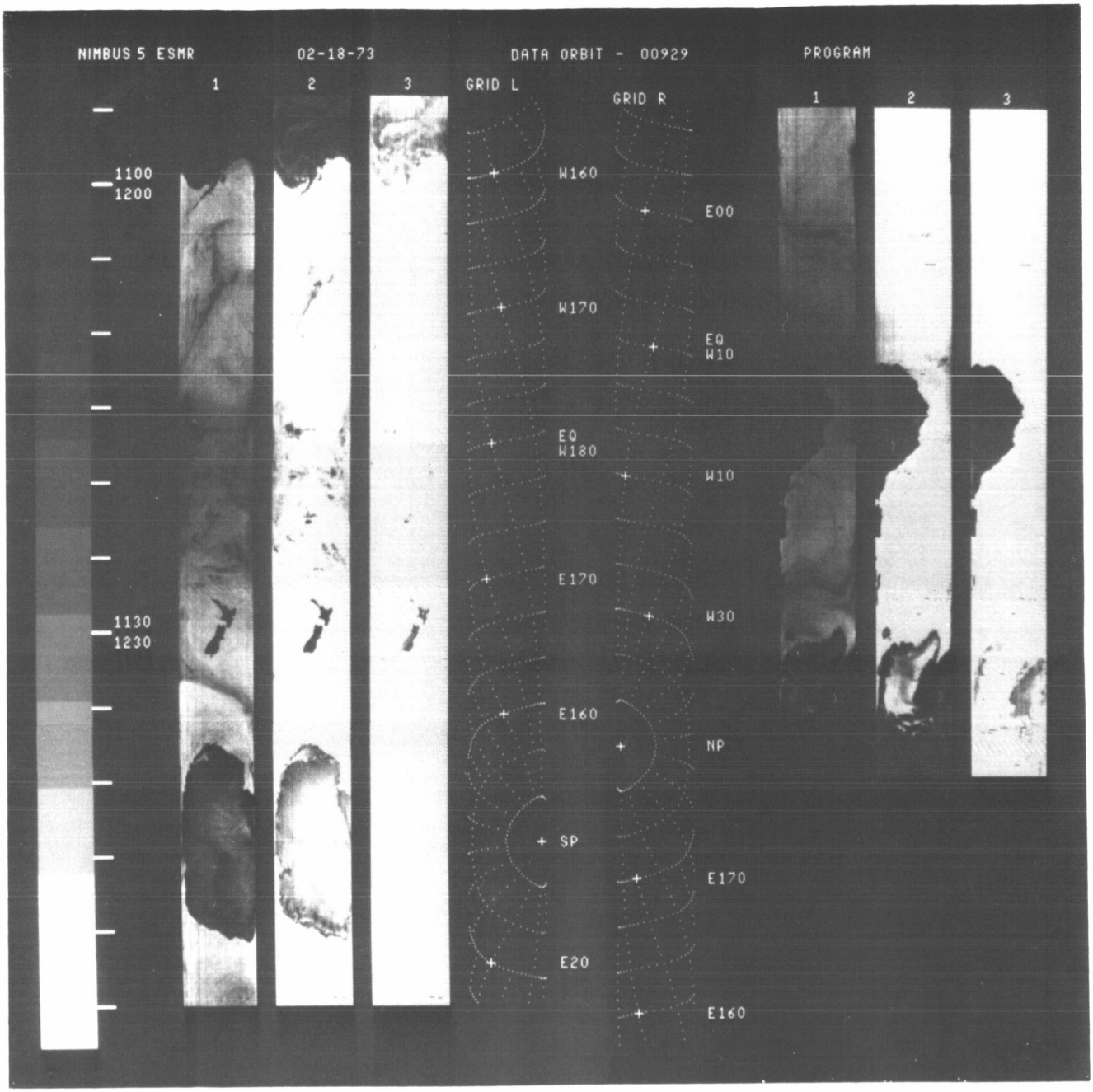

NIMBUS 5 ESMR
02-13-73
DATA ORBIT - 00862
PROGRAM
1
2
3
GRID L
GRID R
W160
E00
W180
EQ
W10
EQ
W180
W20
E170
W30
E150
NP
SP
E170
E10
E160
1130
1230
1200
1300

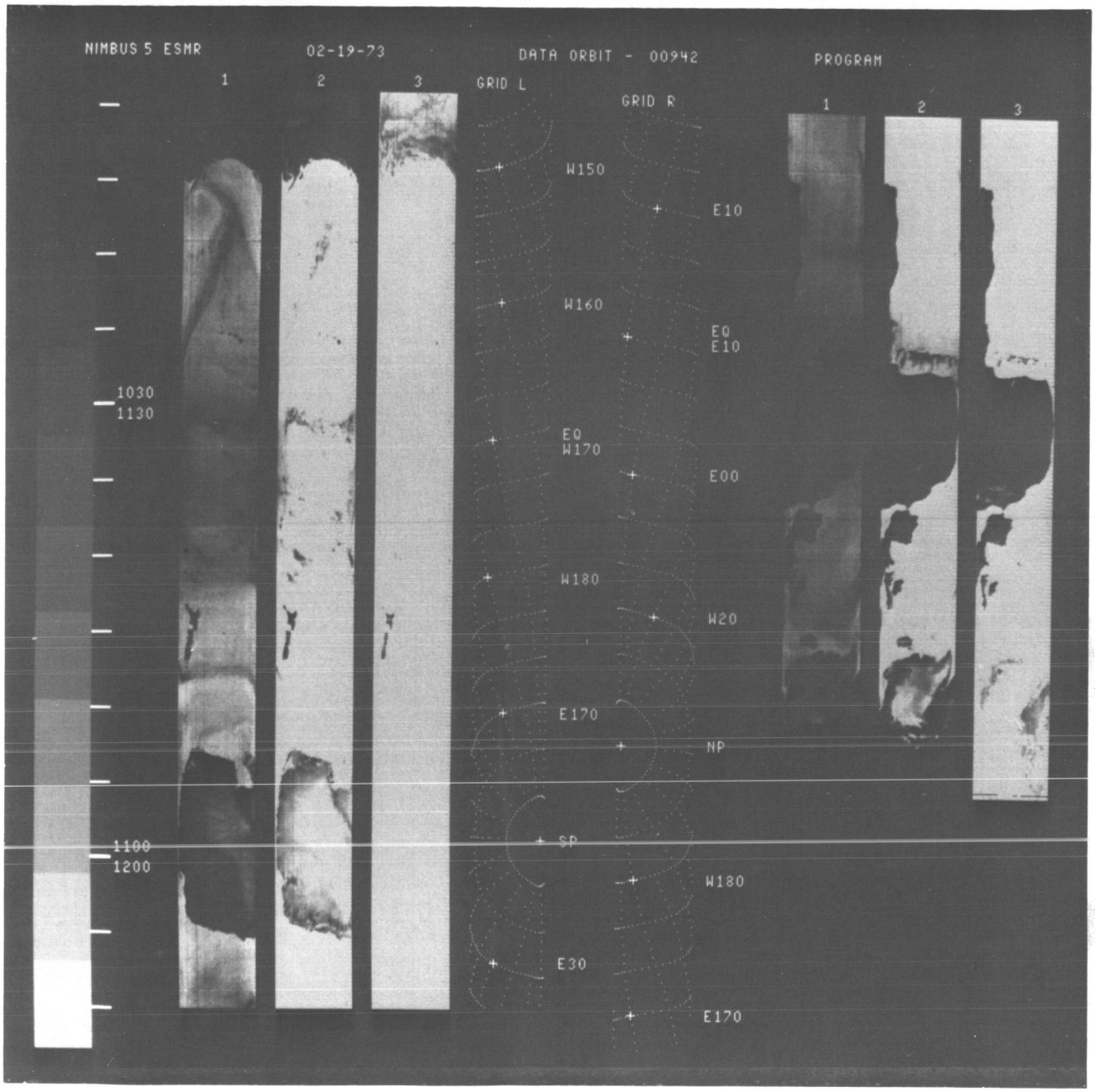

NIMBUS 5 ESMR
02-14-73
DATA ORBIT - 00871
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
W40
E120
W60
EQ
E110
EQ
W70
E100
W70
E90
W90
NP
SP
W70
E130
W90
0330
0430
0400
0500

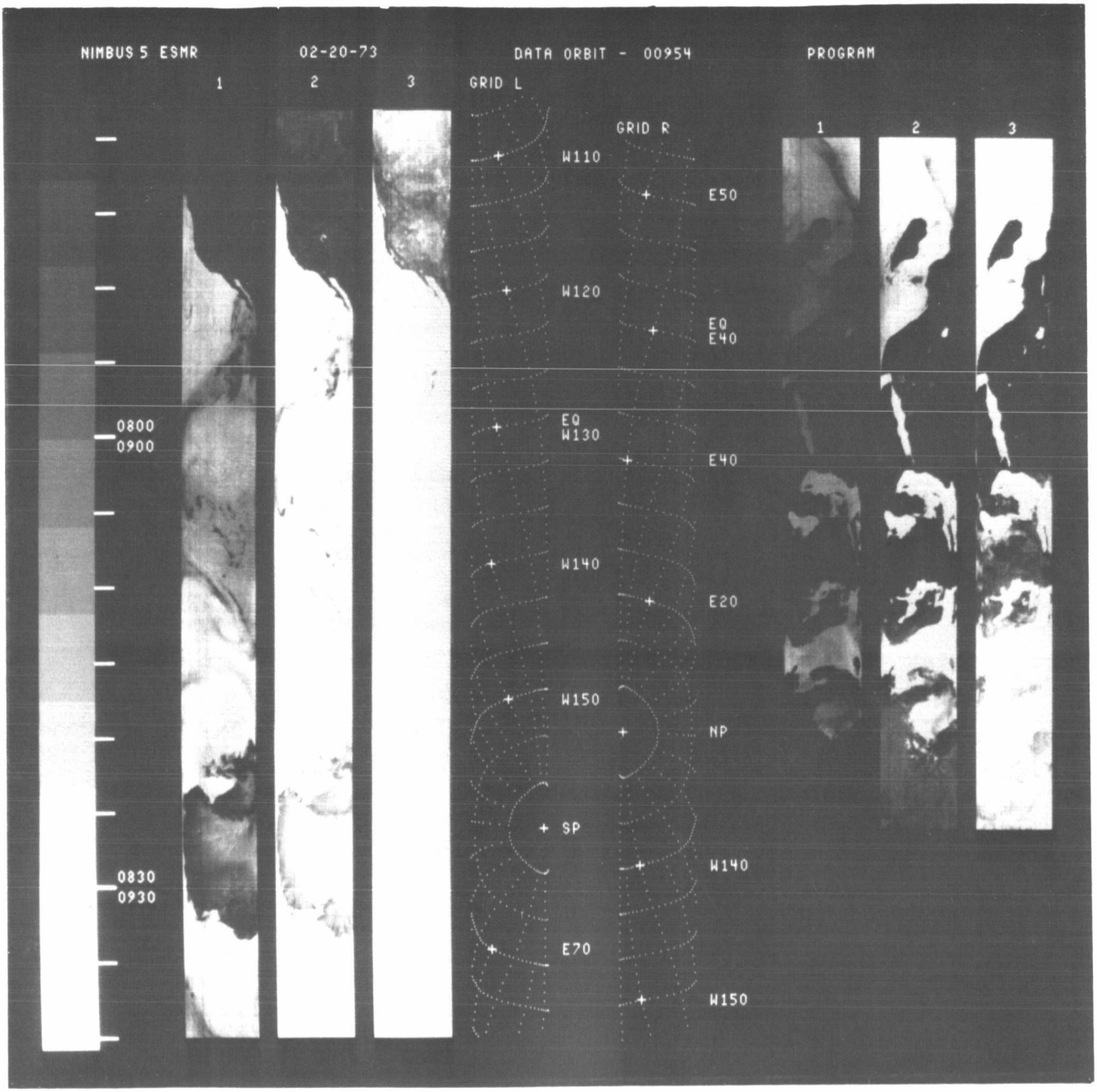

NIMBUS 5 ESMR
02-15-73
DATA ORBIT - 00886
PROGRAM
1
2
3
0600
0700
GRID L
GRID R
W90
E80
W100
EQ
E70
EQ
W110
E60
0630
0730
W120
E50
W130
NP
SP
W110
E90
W130

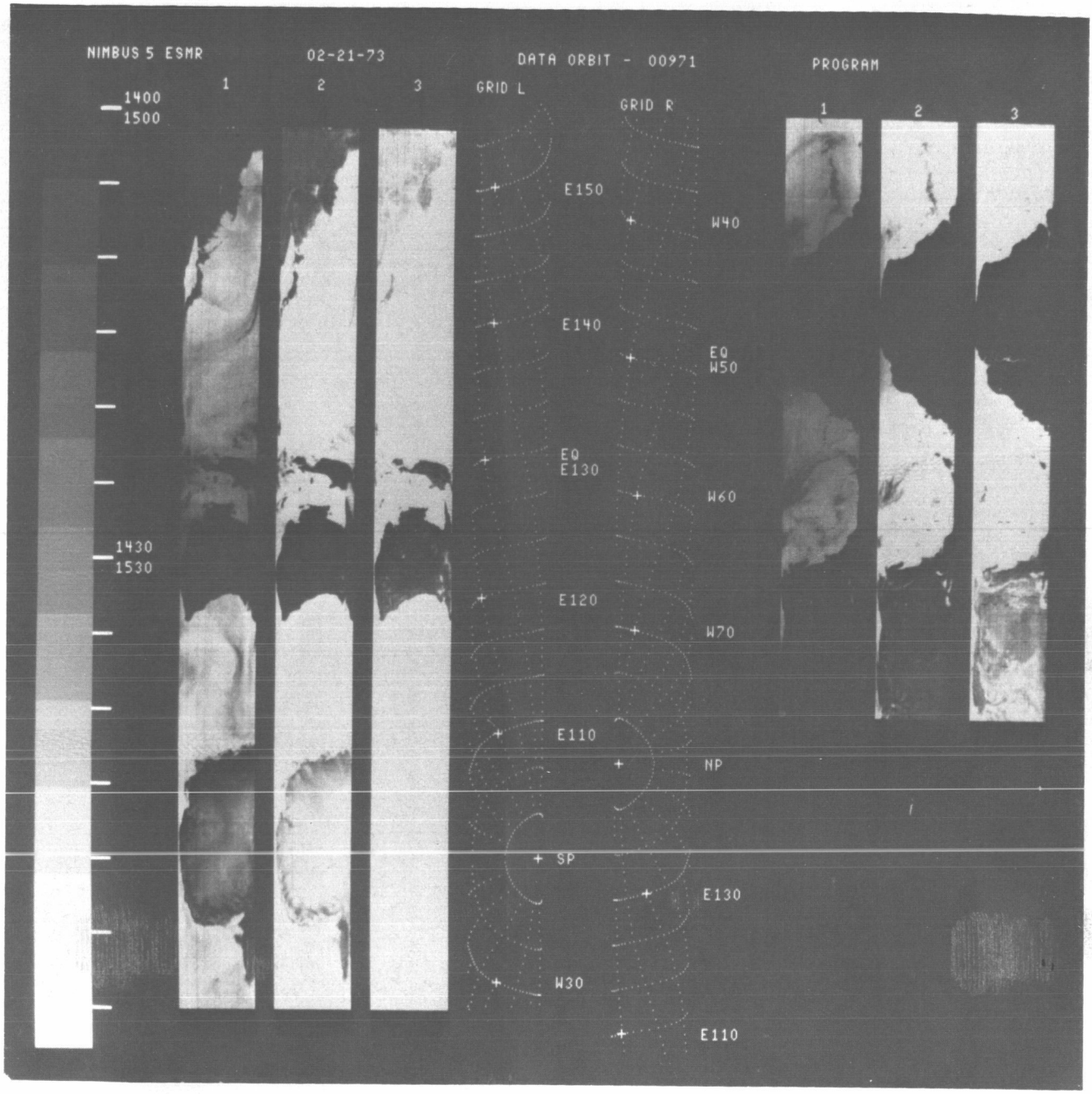

NIMBUS 5 ESMR
02-16-73
DATA ORBIT - 00900
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
E60
W120
EQ
E50
EQ
W120
E40
0730
0830
W130
E30
W150
NP
SP
W130
0800
0900
E70
W140

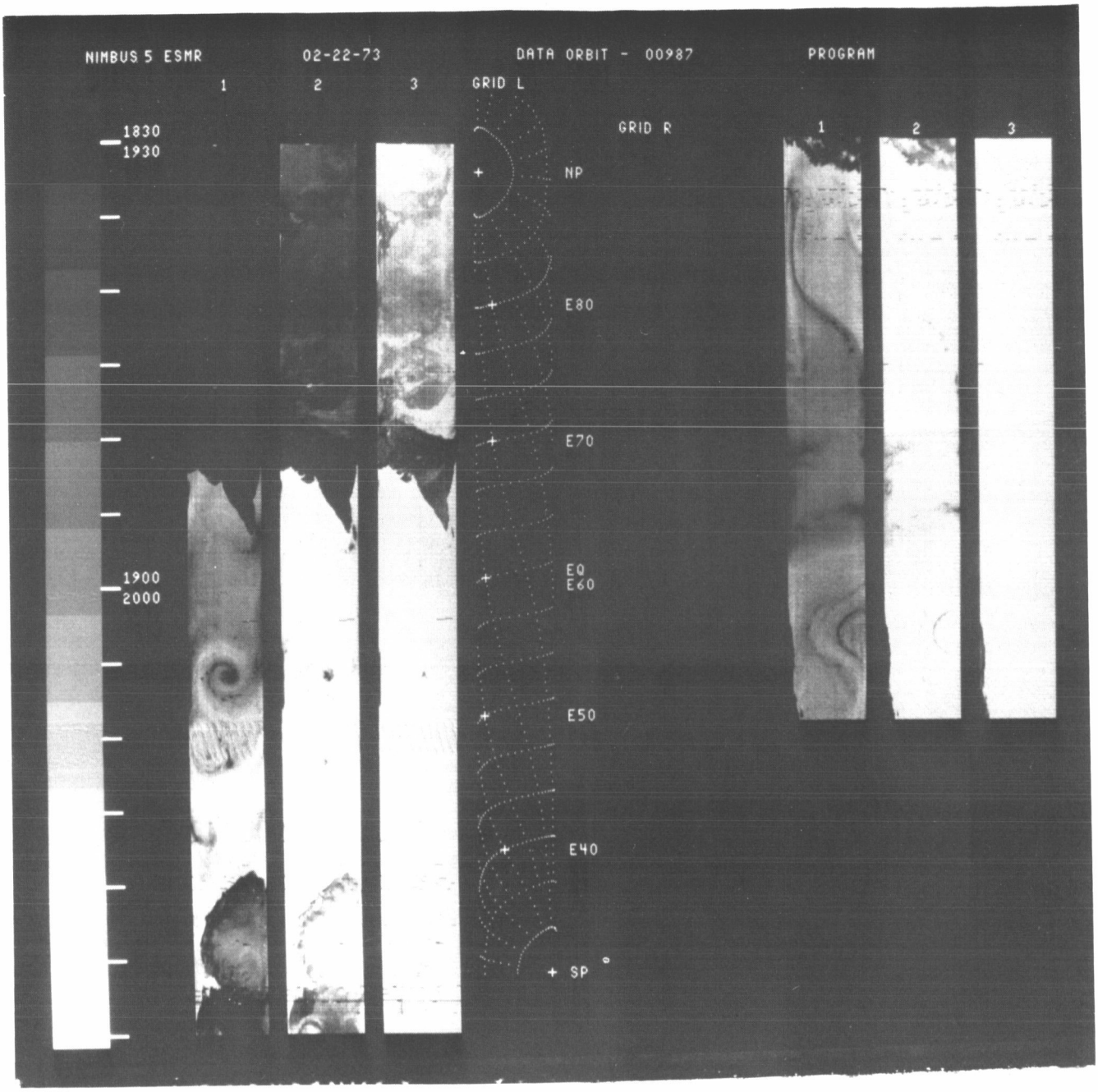

NIMBUS 5 ESMR
02-17-73
DATA ORBIT - 00913
PROGRAM
1
2
3
GRID L
GRID R
0630
0730
0700
0800
W100
EQ
E60
EQ
W110
E60
W120
E40
W130
NP
SP
W120
E90
W130
E70
EQ
W140

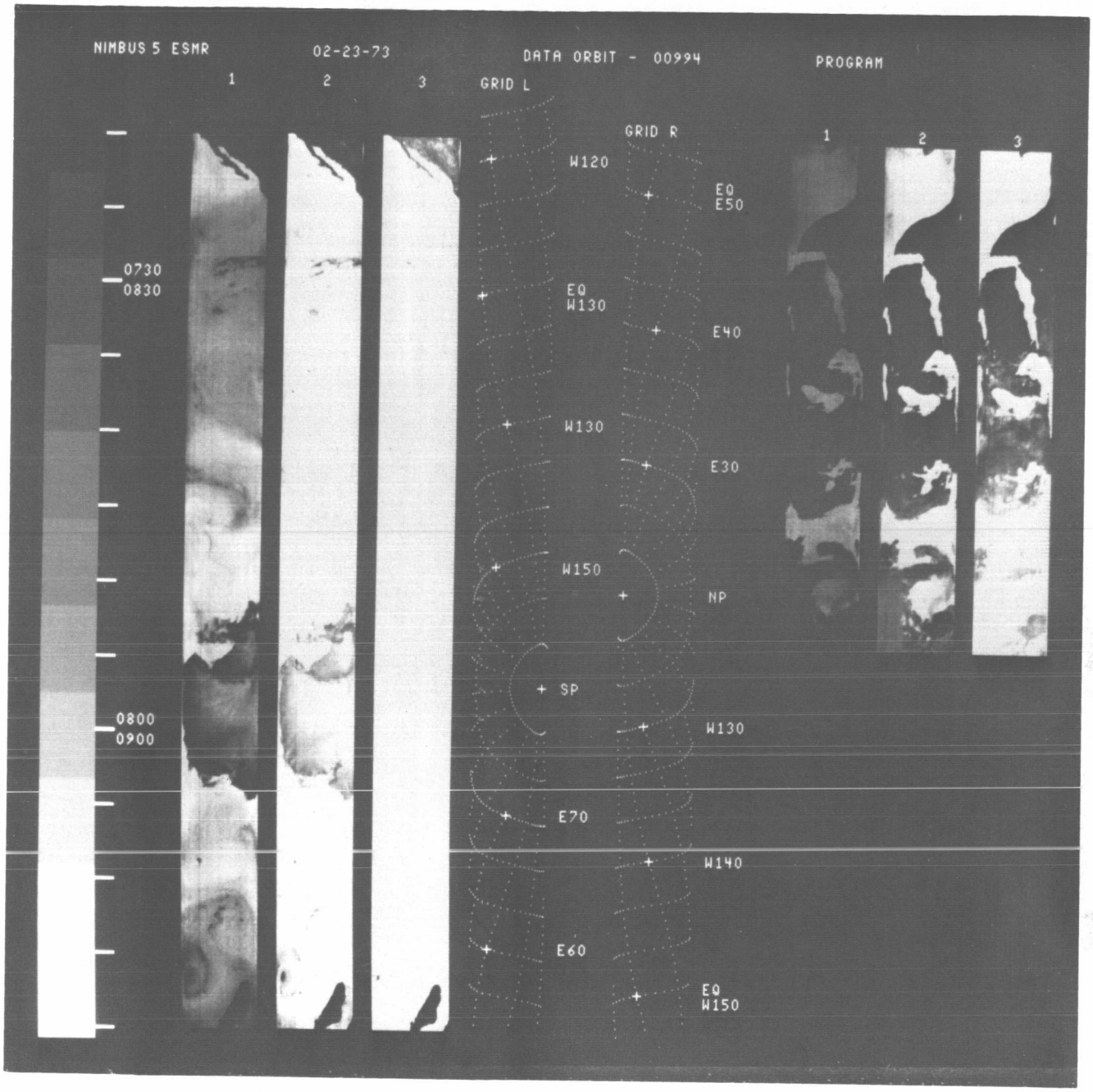

NIMBUS 5 ESMR
02-18-73
DATA ORBIT - 00929
PROGRAM
1
2
3
GRID L
GRID R
1100
1200
1130
1230
W160
E00
W170
EQ
W10
EQ
W180
W10
E170
W30
E160
NP
SP
E170
E20
E160

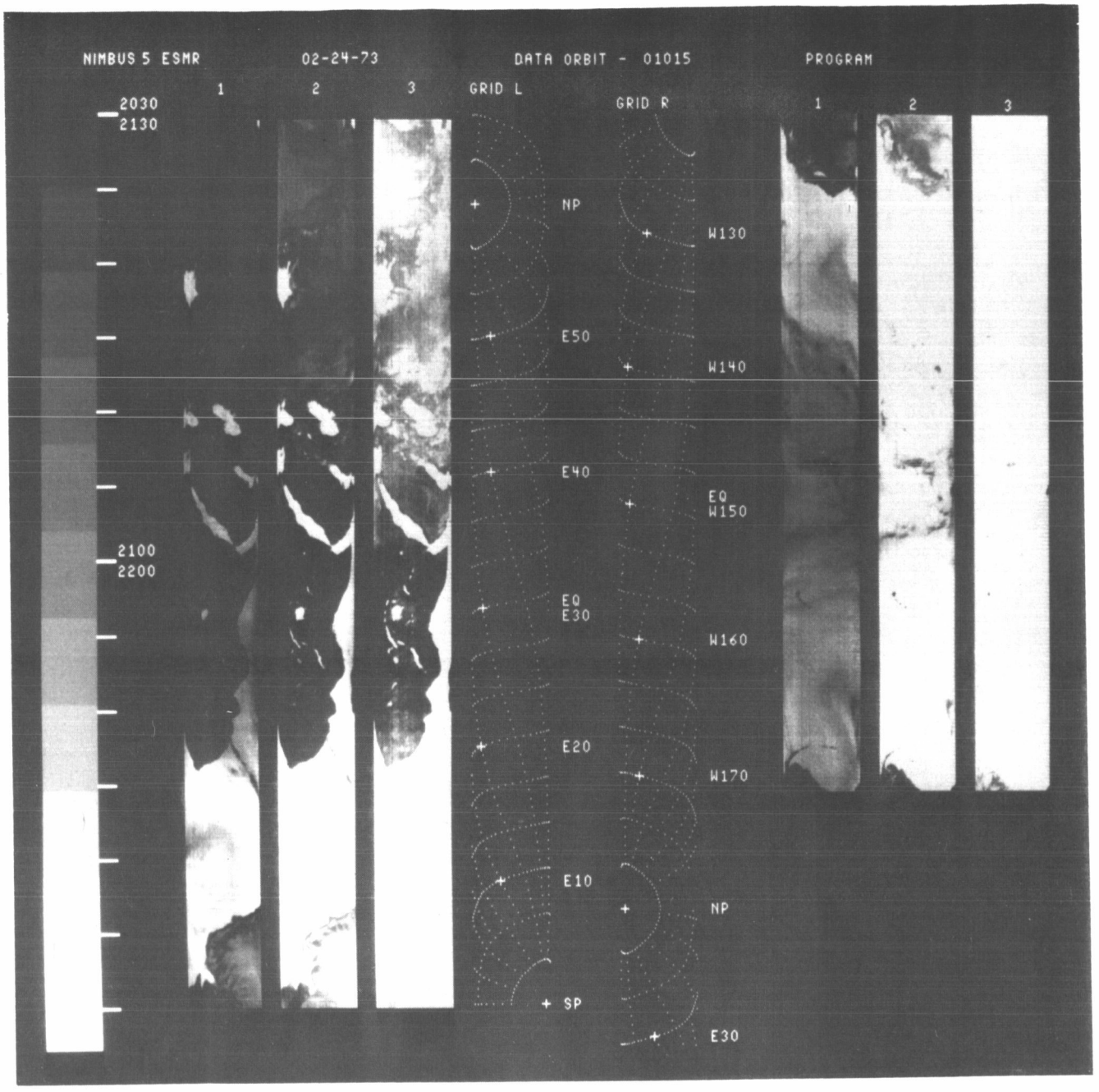

NIMBUS 5 ESMR
02-19-73
DATA ORBIT - 00942
PROGRAM
1
2
3
GRID L
GRID R
W150
E10
W160
EQ
E10
EQ
W170
E00
W180
W20
E170
NP
SP
W180
E30
E170
1030
1130
1100
1200

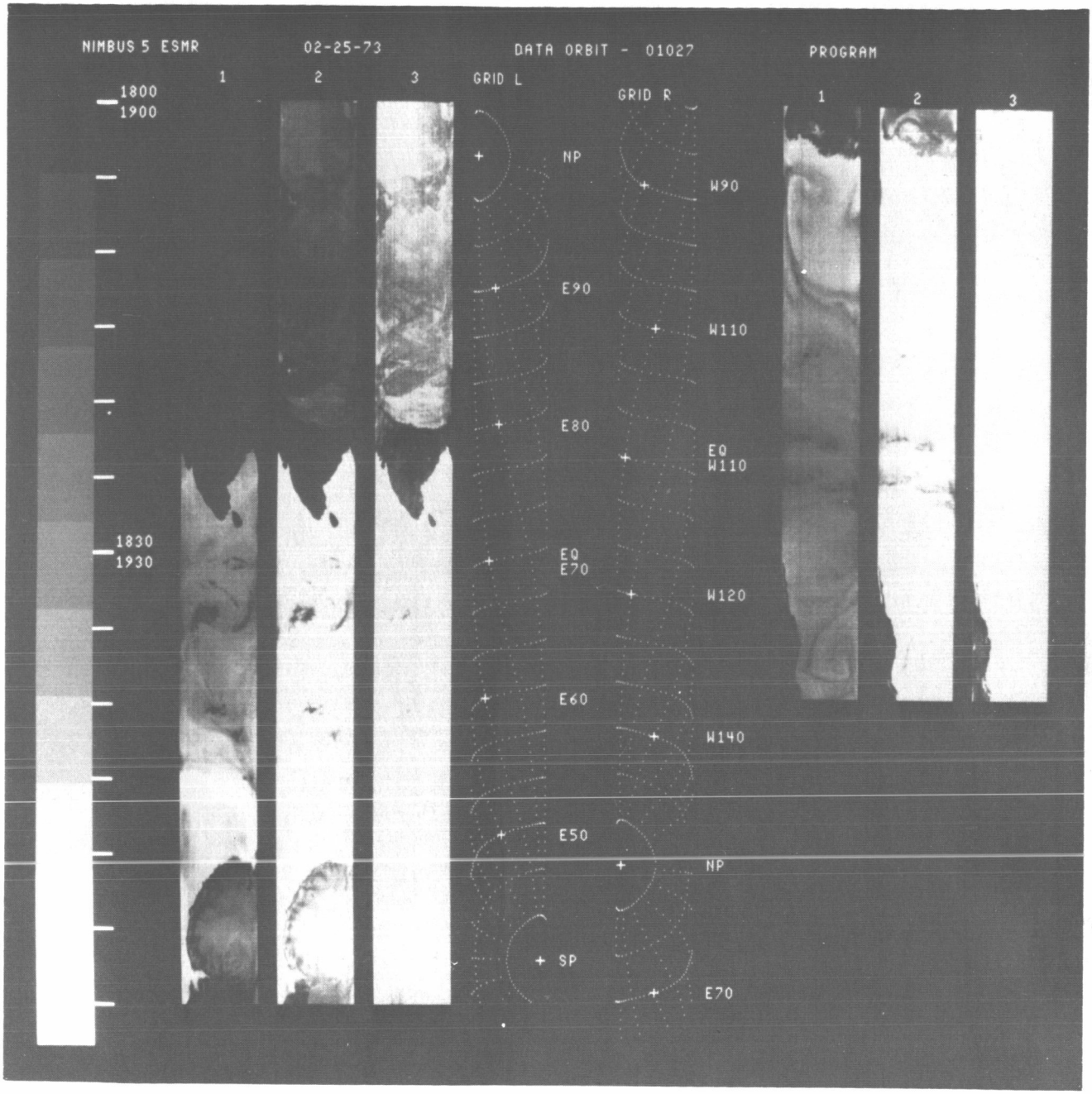

NIMBUS 5 ESMR
02-20-73
DATA ORBIT - 00954
PROGRAM
1
2
3
GRID L
GRID R
W110
E50
W120
EQ
E40
EQ
W130
E40
W140
E20
W150
NP
SP
W140
E70
W150
0800
0900
0830
0930

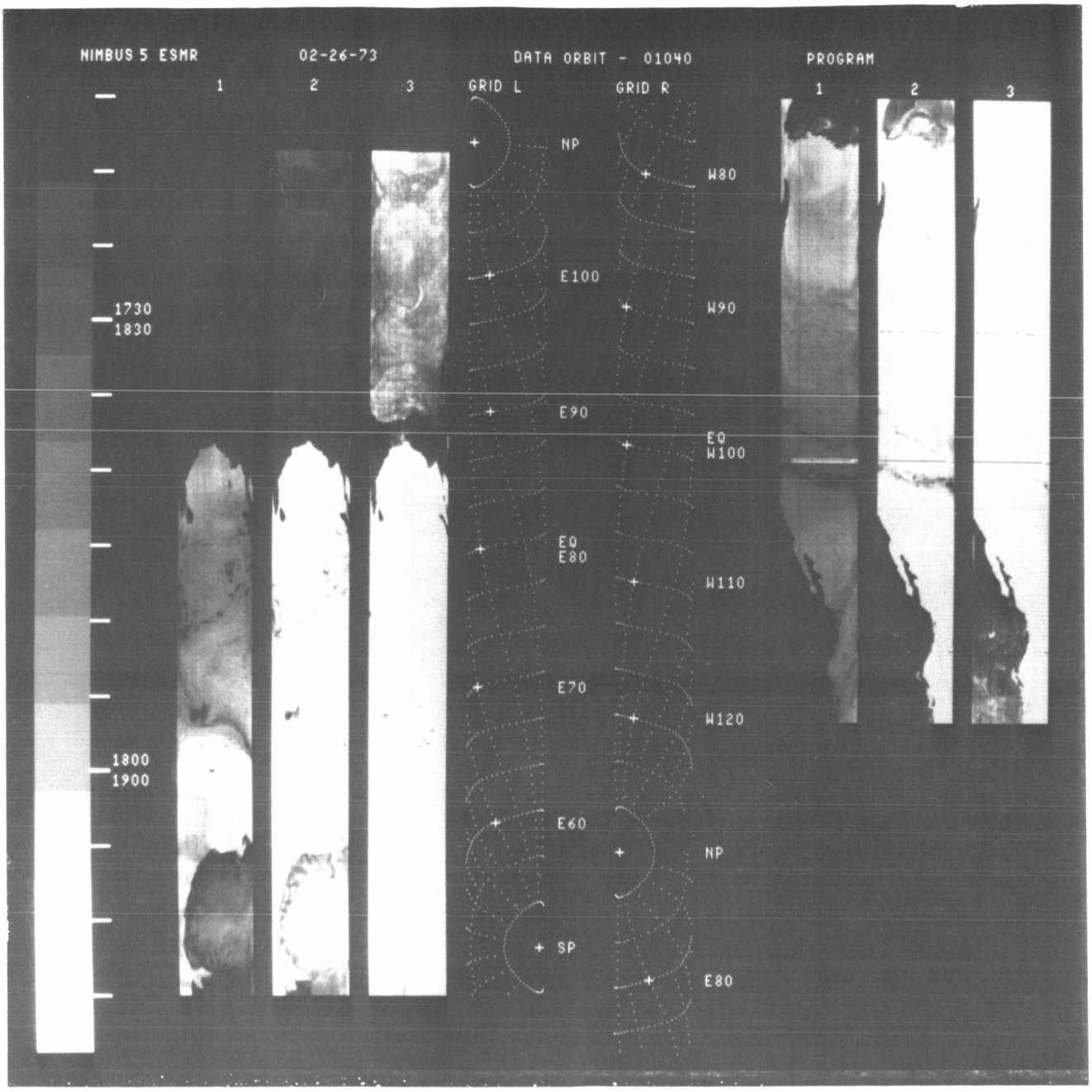

NIMBUS 5 ESMR
02-21-73
DATA ORBIT - 00971
PROGRAM
1
2
3
GRID L
GRID R
1400
1500
1430
1530
E150
W40
E140
EQ
W50
EQ
E130
W60
E120
W70
E110
NP
SP
E130
W30
E110

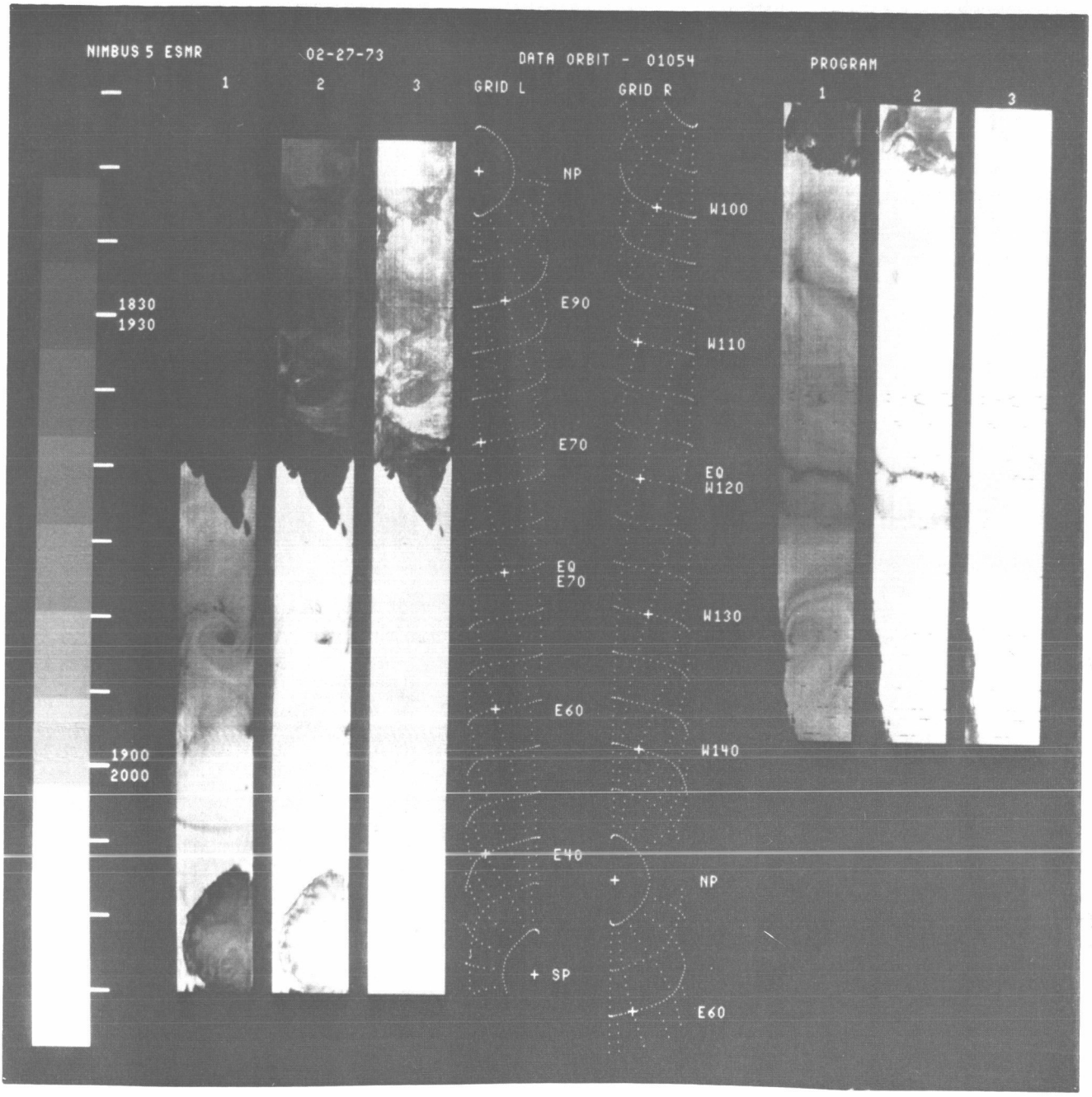

NIMBUS 5 ESMR
02-22-73
DATA ORBIT - 00987
PROGRAM
1
2
3
GRID L
GRID R
1830
1930
1900
2000
NP
E80
E70
EQ
E60
E50
E40
SP

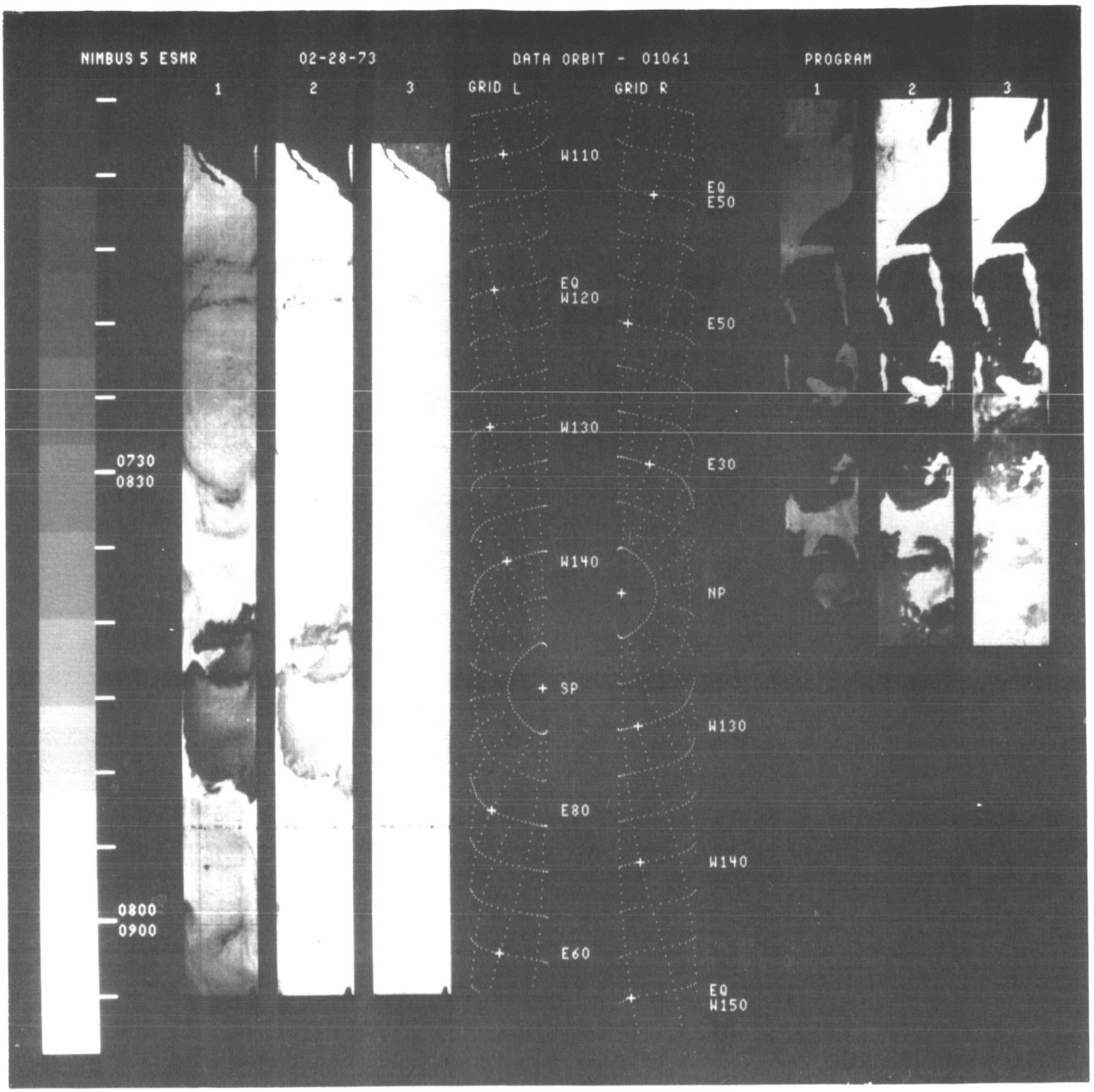

NIMBUS 5 ESMR
02-23-73
DATA ORBIT - 00994
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
W120
EQ
E50
EQ
W130
E40
W130
E30
W150
NP
SP
W130
E70
W140
E60
EQ
W150
0730
0830
0800
0900

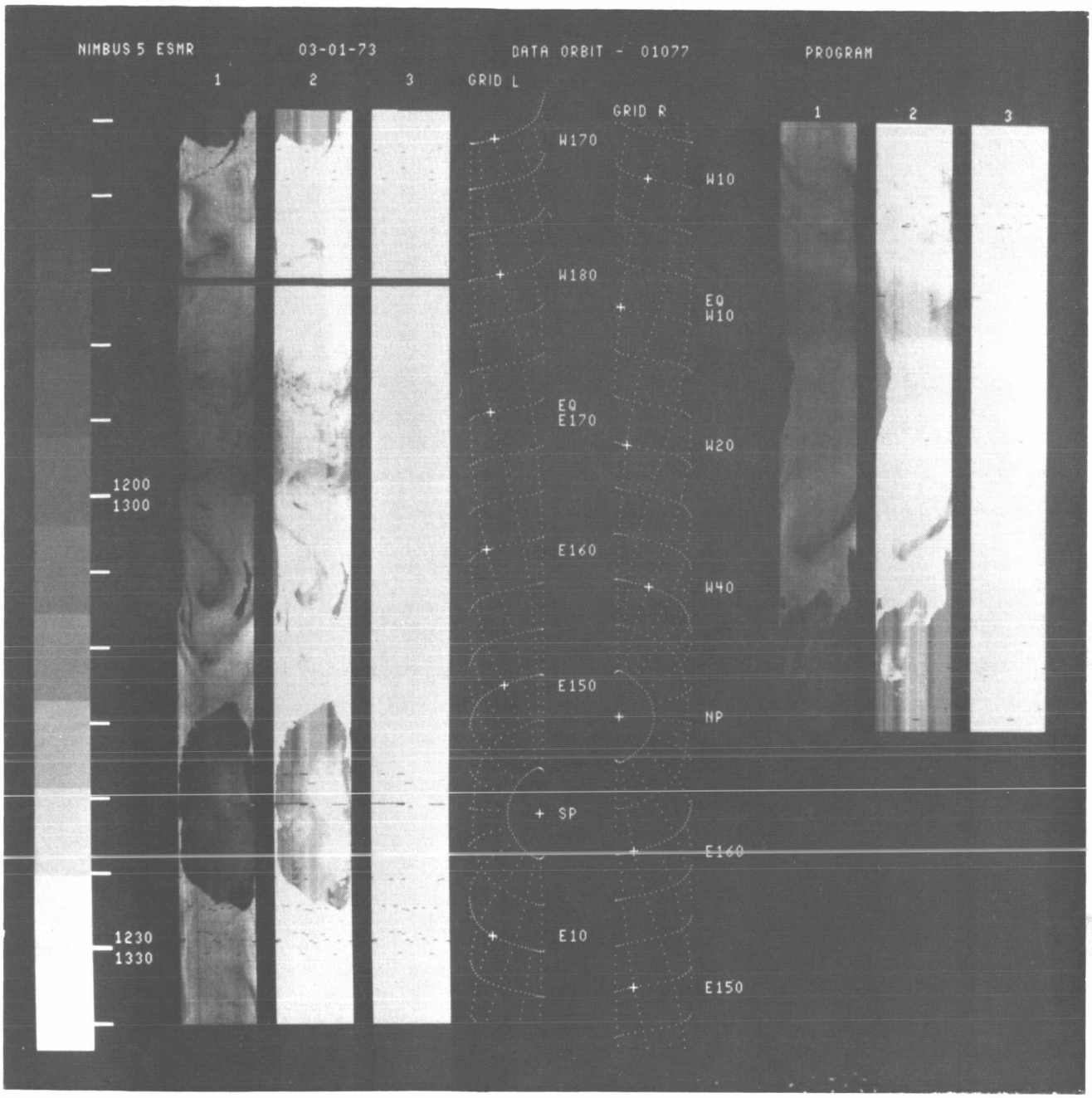

NIMBUS 5 ESMR
02-24-73
DATA ORBIT - 01015
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
2030
2130
2100
2200
NP
W130
E50
W140
E40
EQ
W150
EQ
E30
W160
E20
W170
E10
NP
SP
E30

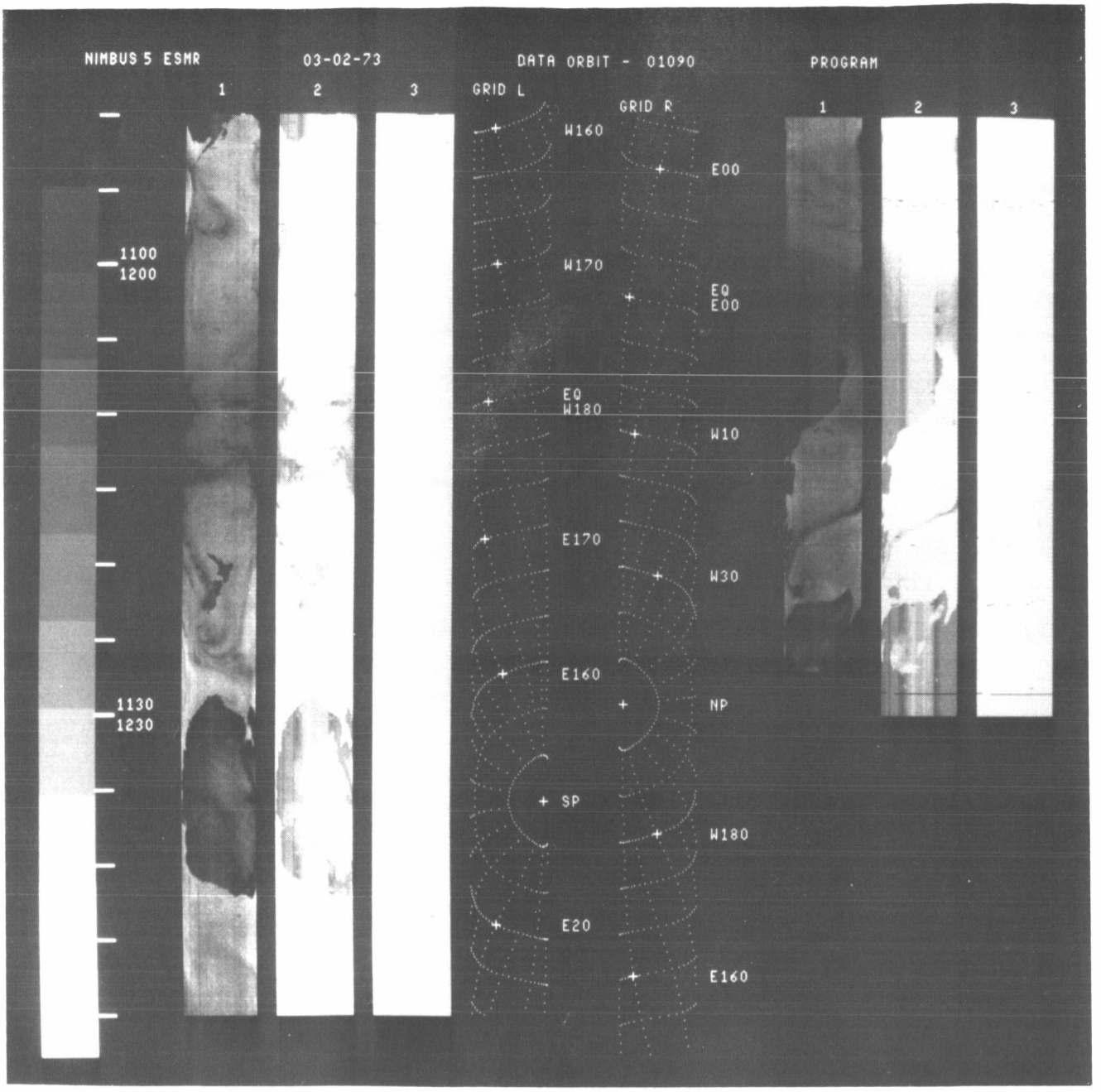

NIMBUS 5 ESMR
02-25-73
DATA ORBIT - 01027
PROGRAM
1
2
3
GRID L
GRID R
1800
1900
1830
1930
NP
W90
E90
W110
E80
EQ
W110
EQ
E70
W120
E60
W140
E50
NP
SP
E70

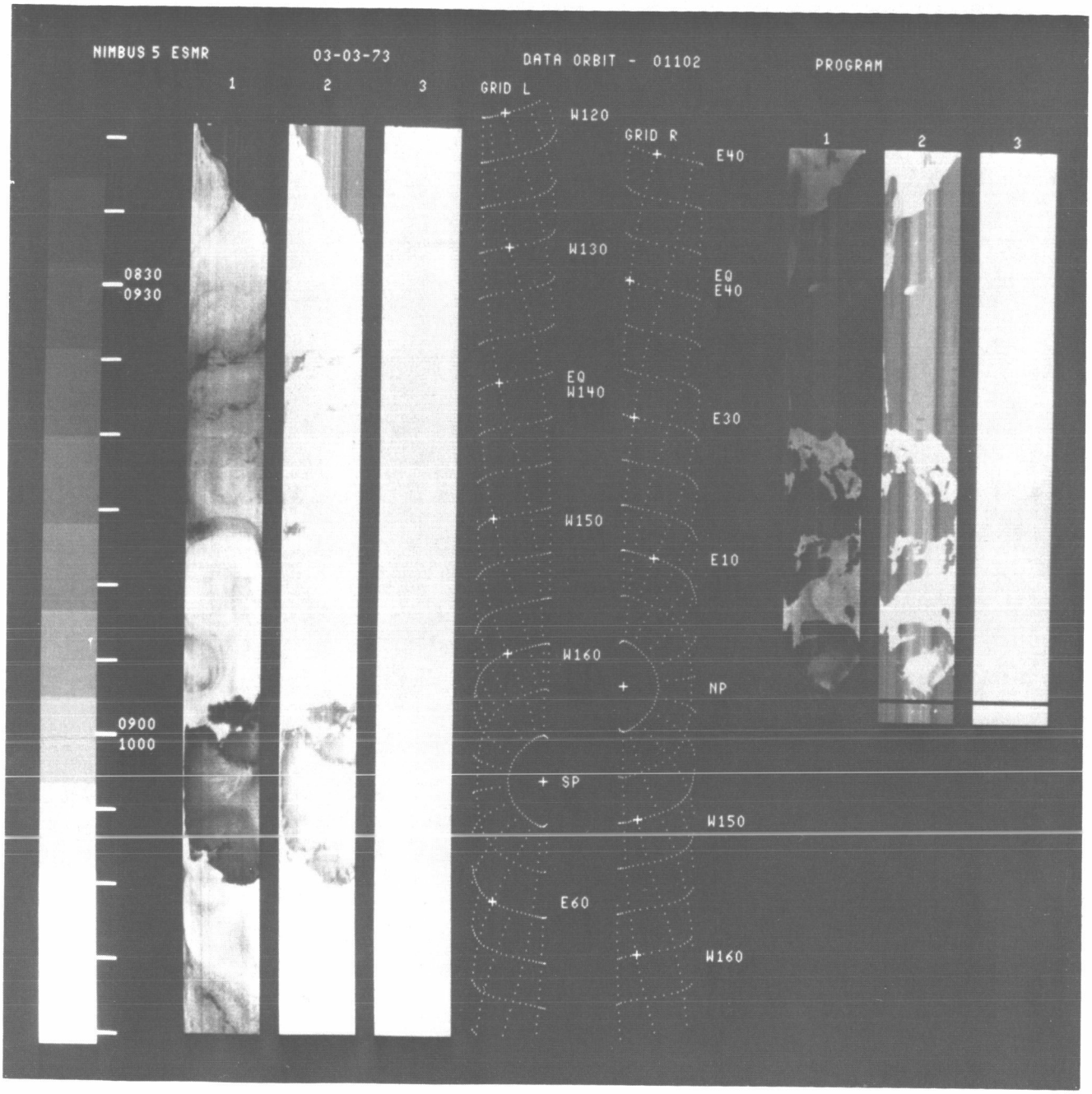

NIMBUS 5 ESMR
02-26-73
DATA ORBIT - 01040
PROGRAM
1
2
3
GRID L
GRID R
NP
W80
E100
W90
1730
1830
E90
EQ
W100
EQ
E80
W110
E70
W120
1800
1900
E60
NP
SP
E80

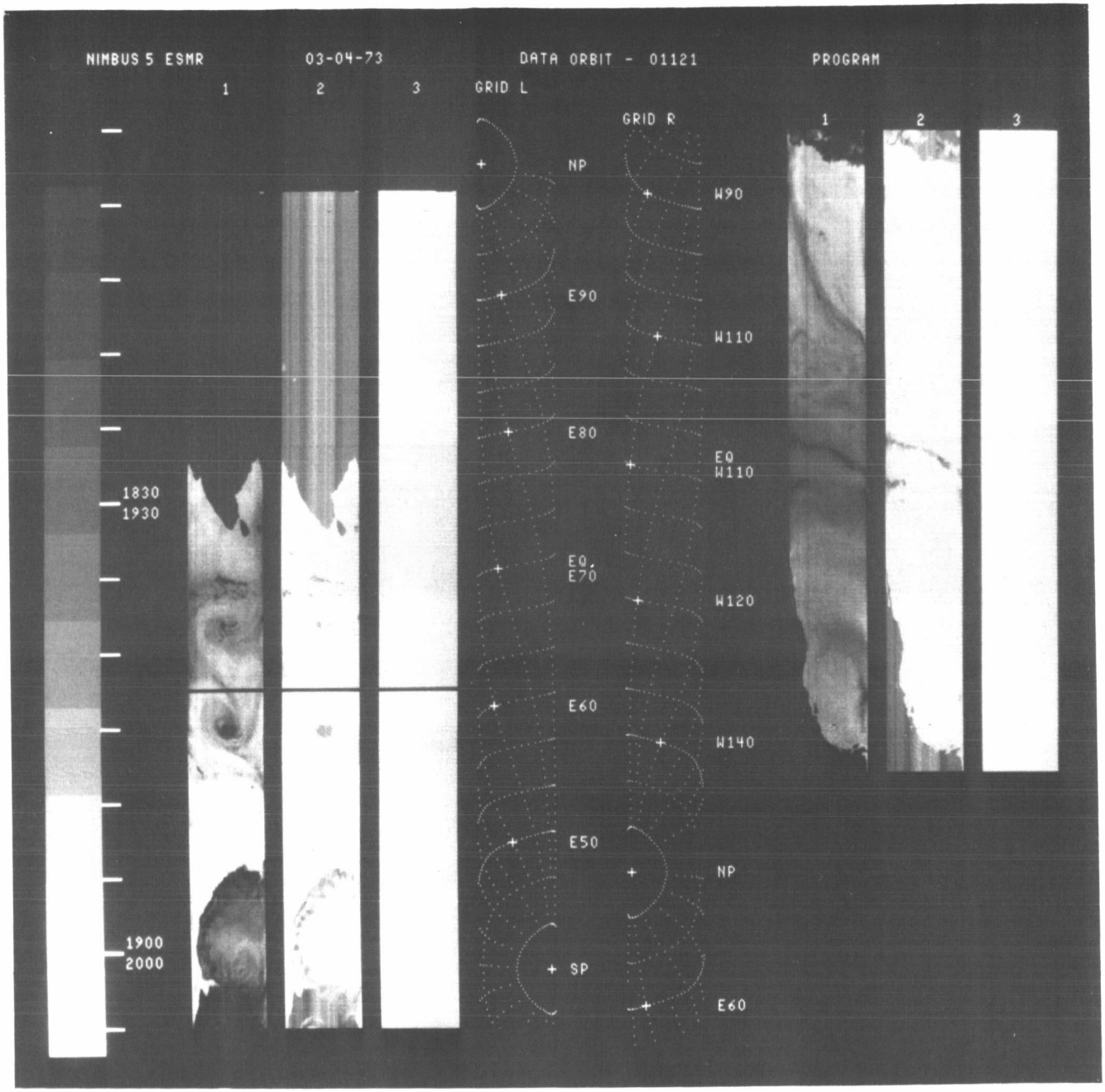

NIMBUS 5 ESMR
02-27-73
DATA ORBIT - 01054
PROGRAM
1
2
3
GRID L
GRID R
NP
W100
E90
W110
E70
EQ
W120
EQ
E70
W130
E60
W140
E40
NP
SP
E60
1830
1930
1900
2000


NIMBUS 5 ESMR
02-28-73
DATA ORBIT - 01061
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
W110
EQ
E50
EQ
W120
E50
W130
E30
W140
NP
SP
W130
E80
W140
E60
EQ
W150
0730
0830
0800
0900

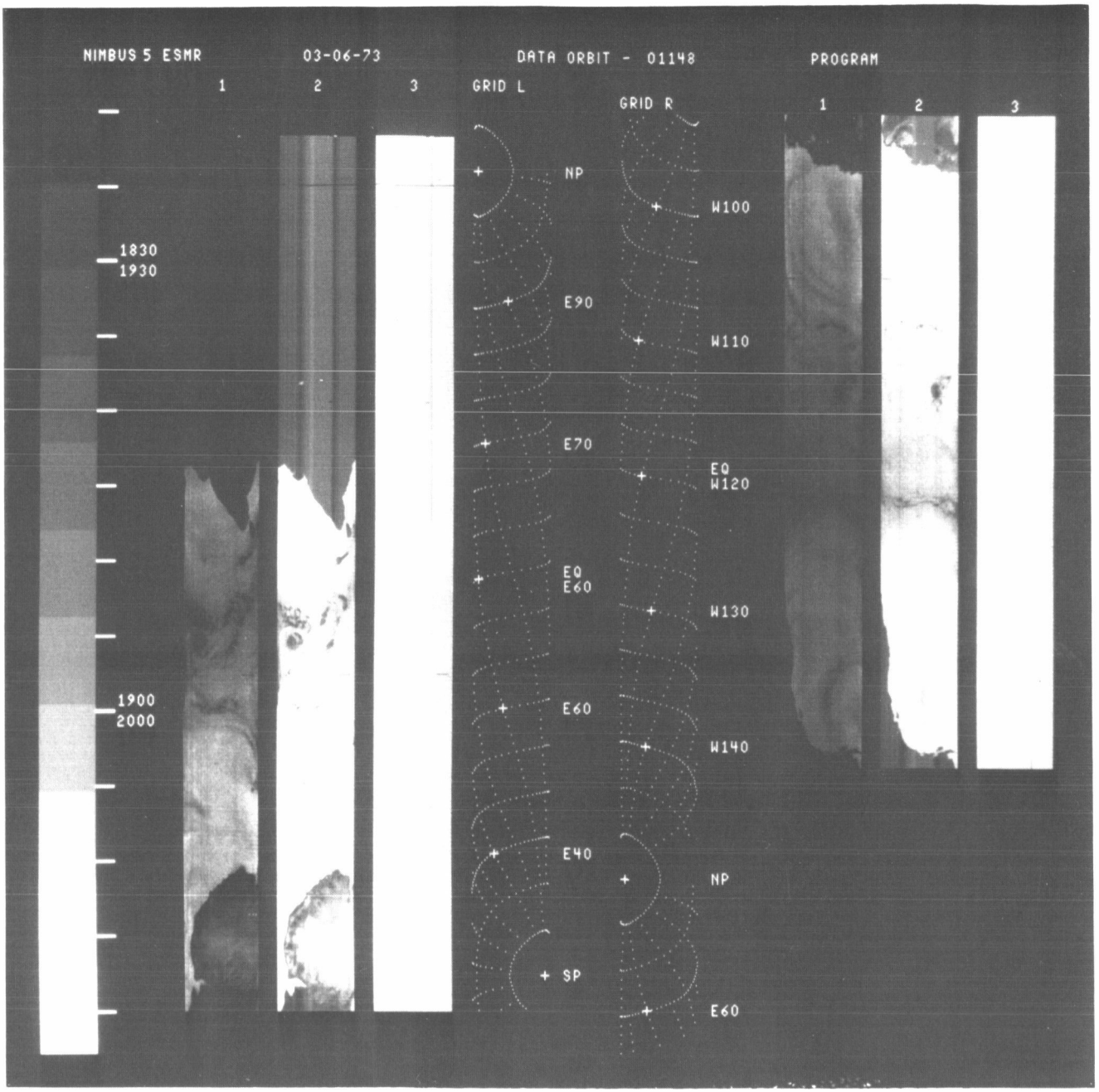

NIMBUS 5 ESMR
03-01-73
DATA ORBIT - 01077
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
W170
W10
W180
EQ
W10
EQ
E170
W20
E160
W40
E150
NP
SP
E160
E10
E150
1200
1300
1230
1330

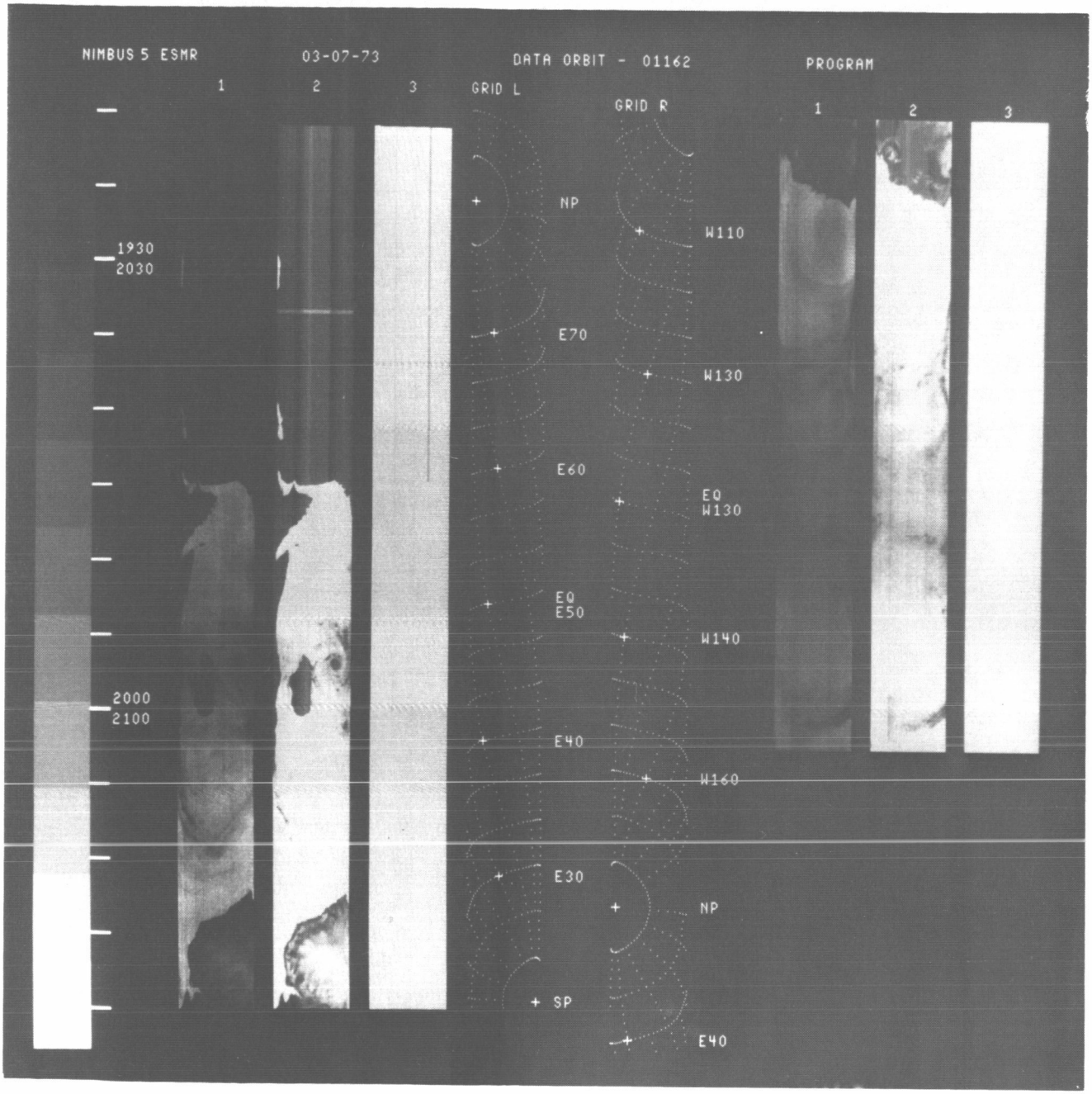

NIMBUS 5 ESMR
03-02-73
DATA ORBIT - 01090
PROGRAM
1
2
3
GRID L
GRID R
1100
1200
1130
1230
W160
E00
W170
EQ
E00
EQ
W180
W10
E170
W30
E160
NP
SP
W180
E20
E160

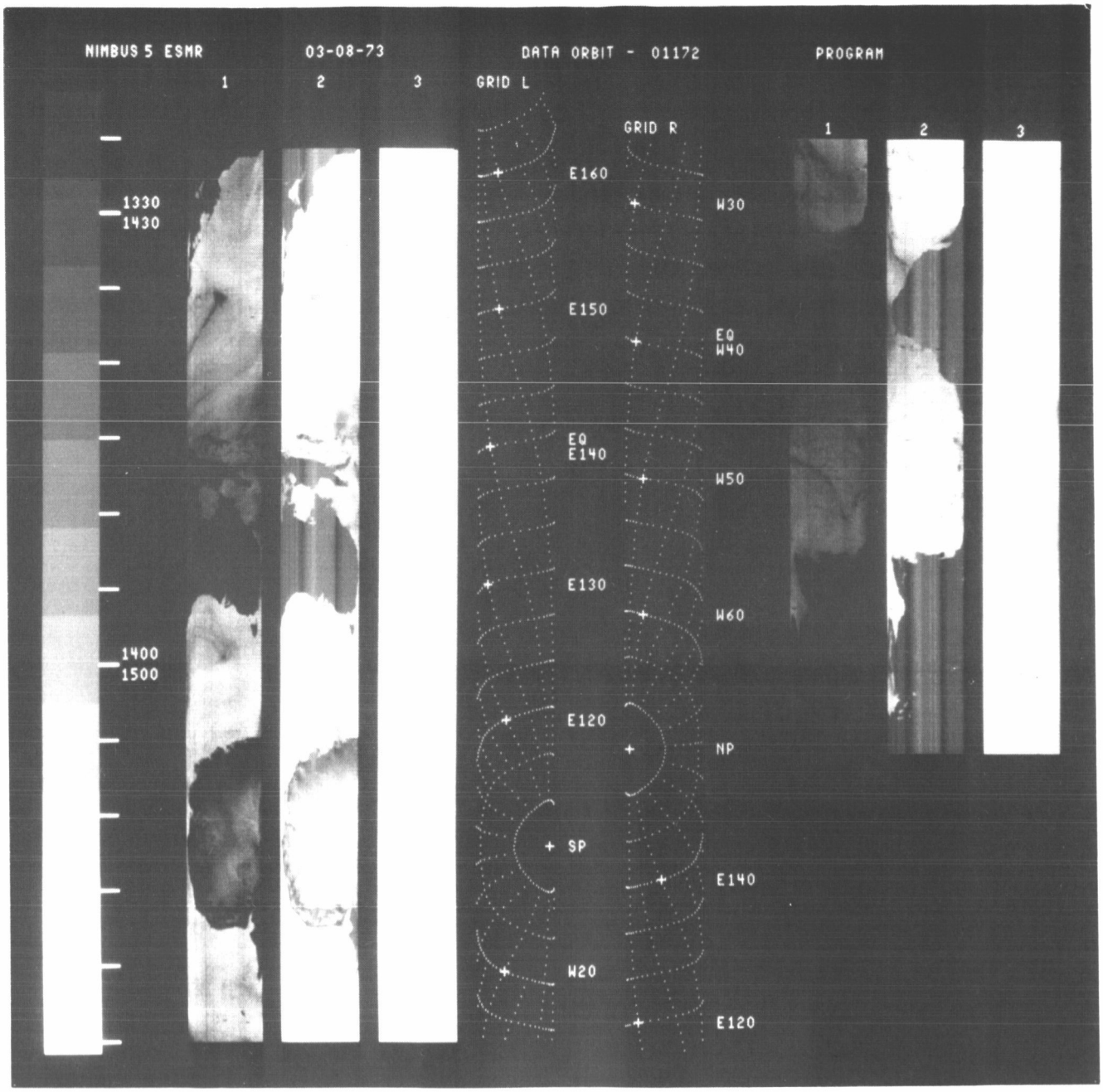

NIMBUS 5 ESMR
03-03-73
DATA ORBIT - 01102
PROGRAM
1
2
3
GRID L
GRID R
W120
E40
W130
EQ
E40
EQ
W140
E30
W150
E10
W160
NP
SP
W150
E60
W160
0830
0930
0900
1000

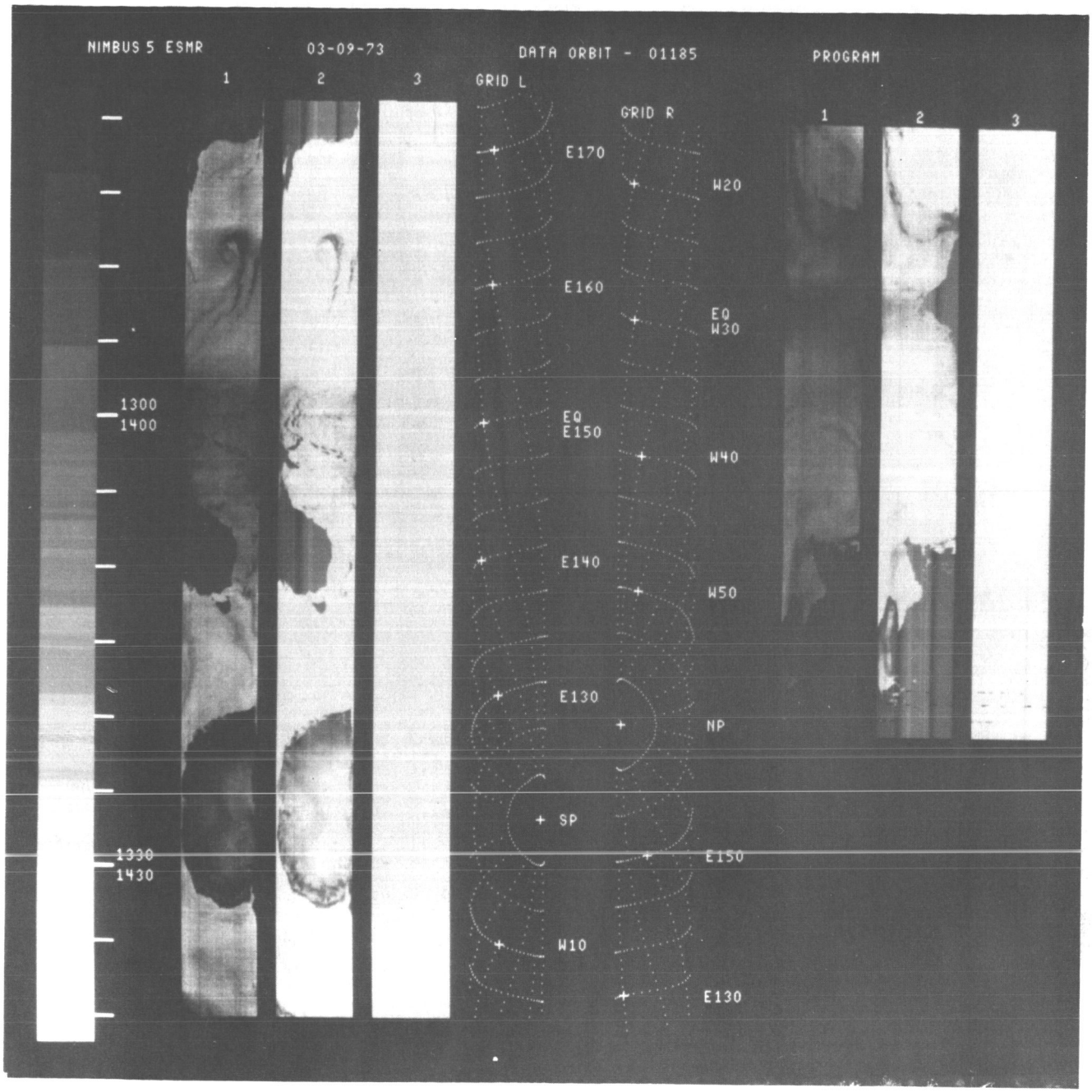

NIMBUS 5 ESMR
03-04-73
DATA ORBIT - 01121
PROGRAM
1
2
3
GRID L
GRID R
NP
W90
E90
W110
E80
EQ
W110
EQ,
E70
W120
E60
W140
E50
NP
SP
E60
1830
1930
1900
2000

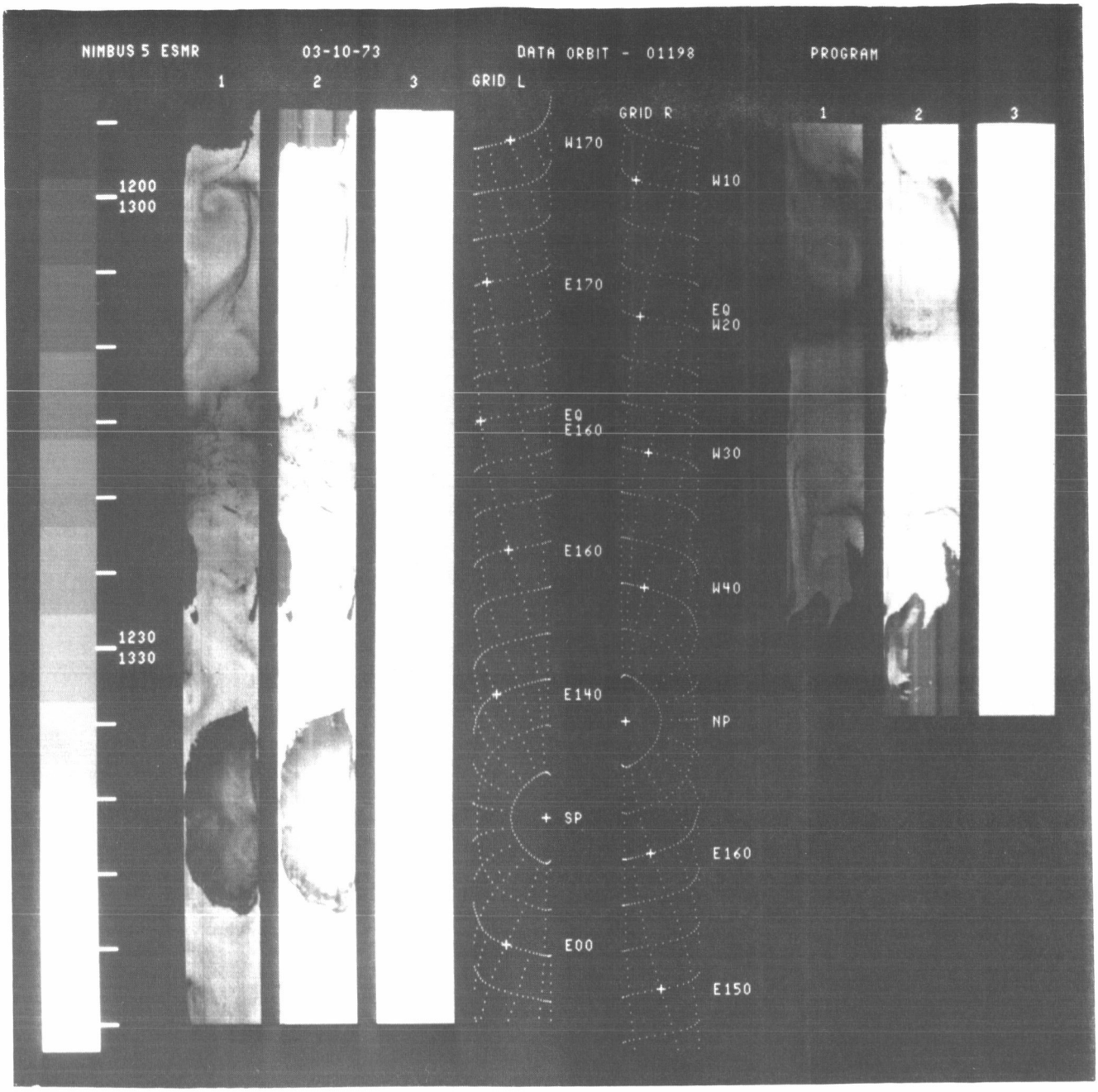

NIMBUS 5 ESMR
03-05-73
DATA ORBIT - 01126
PROGRAM
1
2
3
GRID L
GRID R
W40
E120
W60
EQ
E110
EQ
W70
E100
W70
E90
W90
NP
SP
W70
E130
W80
0330
0430
0400
0500

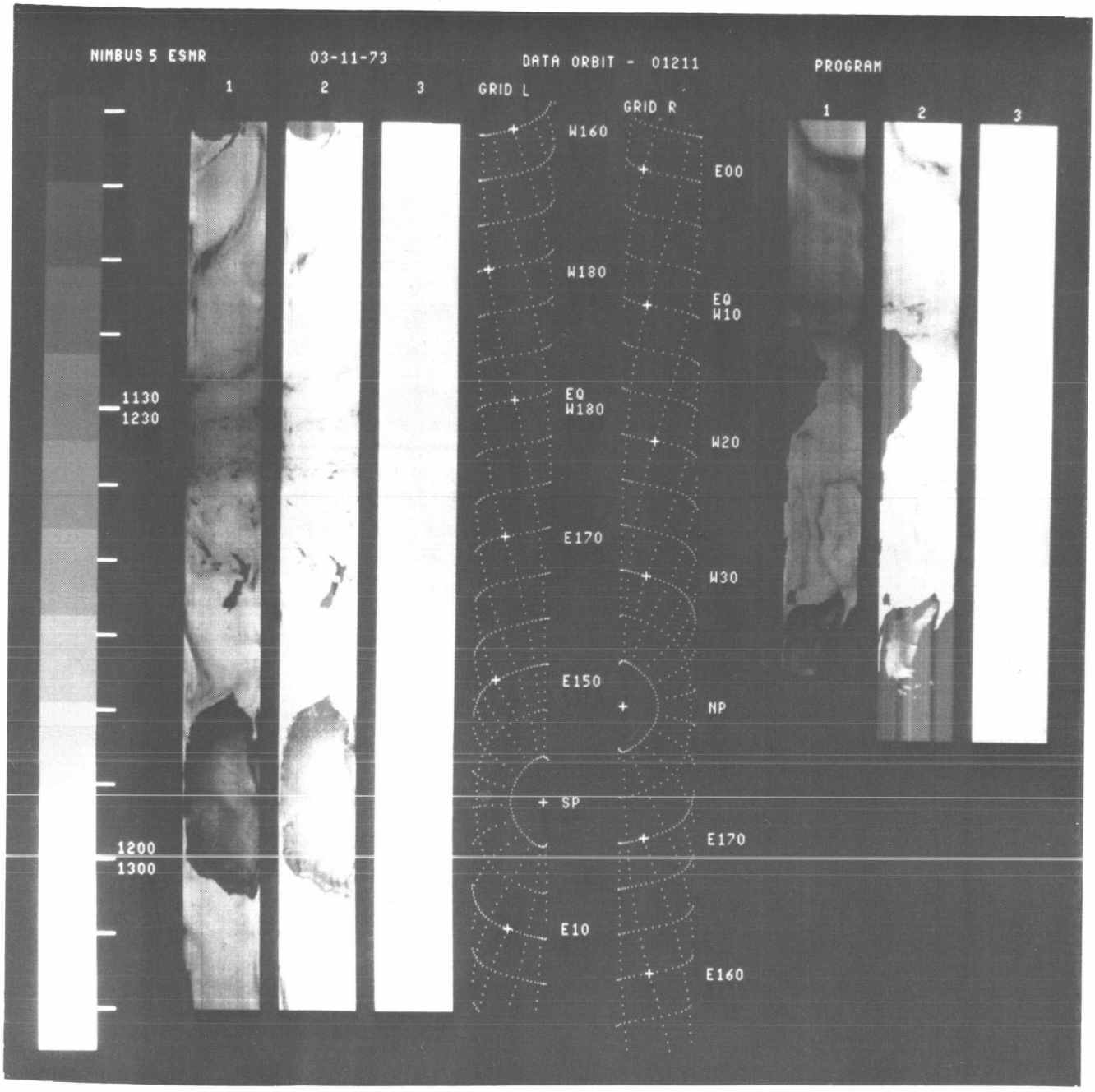

NIMBUS 5 ESMR
03-06-73
DATA ORBIT - 01148
PROGRAM
1
2
3
GRID L
GRID R
1830
1930
1900
2000
NP
W100
E90
W110
E70
EQ
W120
EQ
E60
W130
E60
W140
E40
NP
SP
E60

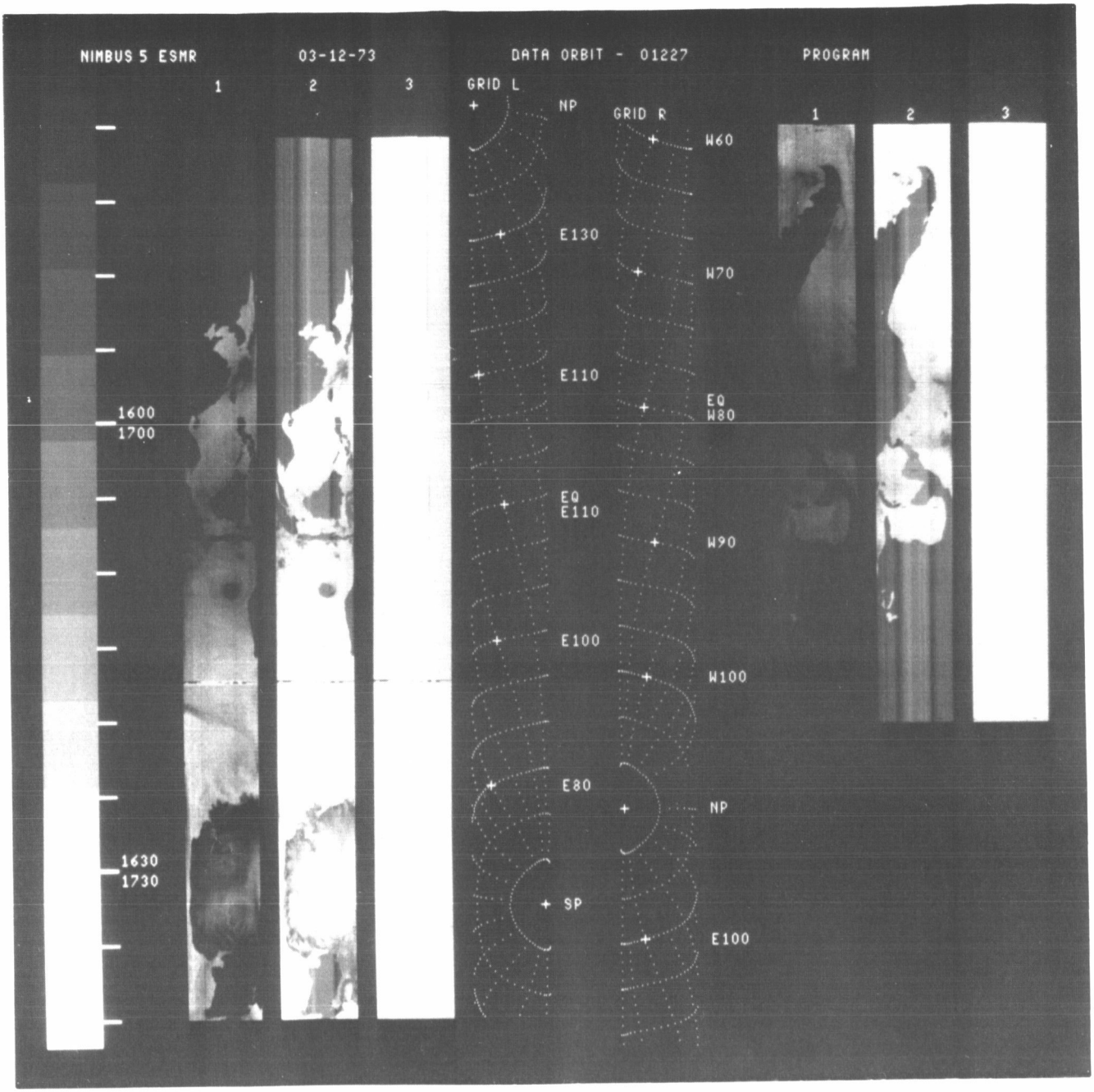

NIMBUS 5 ESMR
03-07-73
DATA ORBIT - 01162
PROGRAM
1
2
3
GRID L
GRID R
1930
2030
2000
2100
NP
W110
E70
W130
E60
EQ
W130
EQ
E50
W140
E40
W160
E30
NP
SP
E40

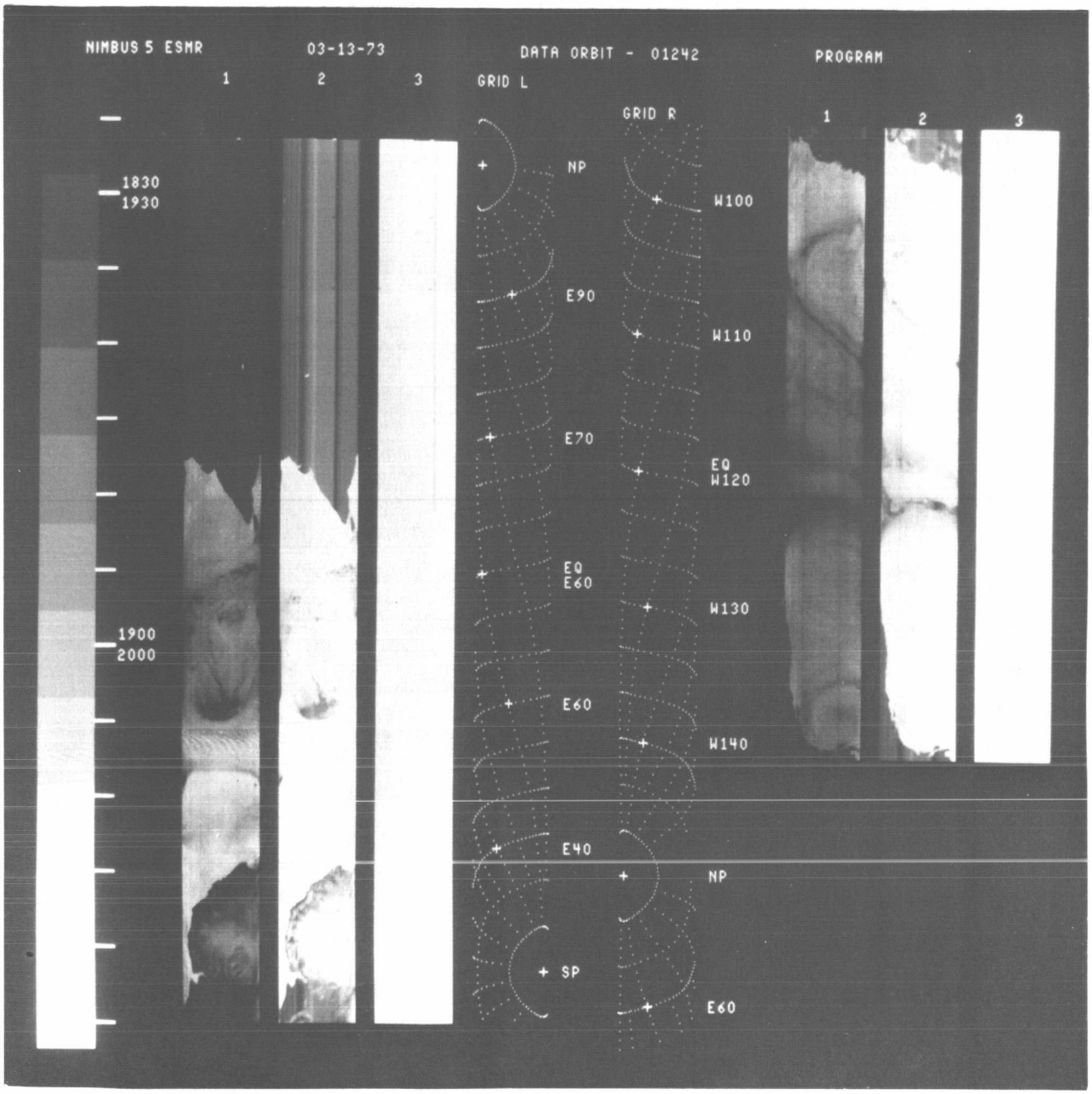

NIMBUS 5 ESMR
03-08-73
DATA ORBIT - 01172
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
1330
1430
1400
1500
E160
W30
E150
EQ
W40
EQ
E140
W50
E130
W60
E120
NP
SP
E140
W20
E120

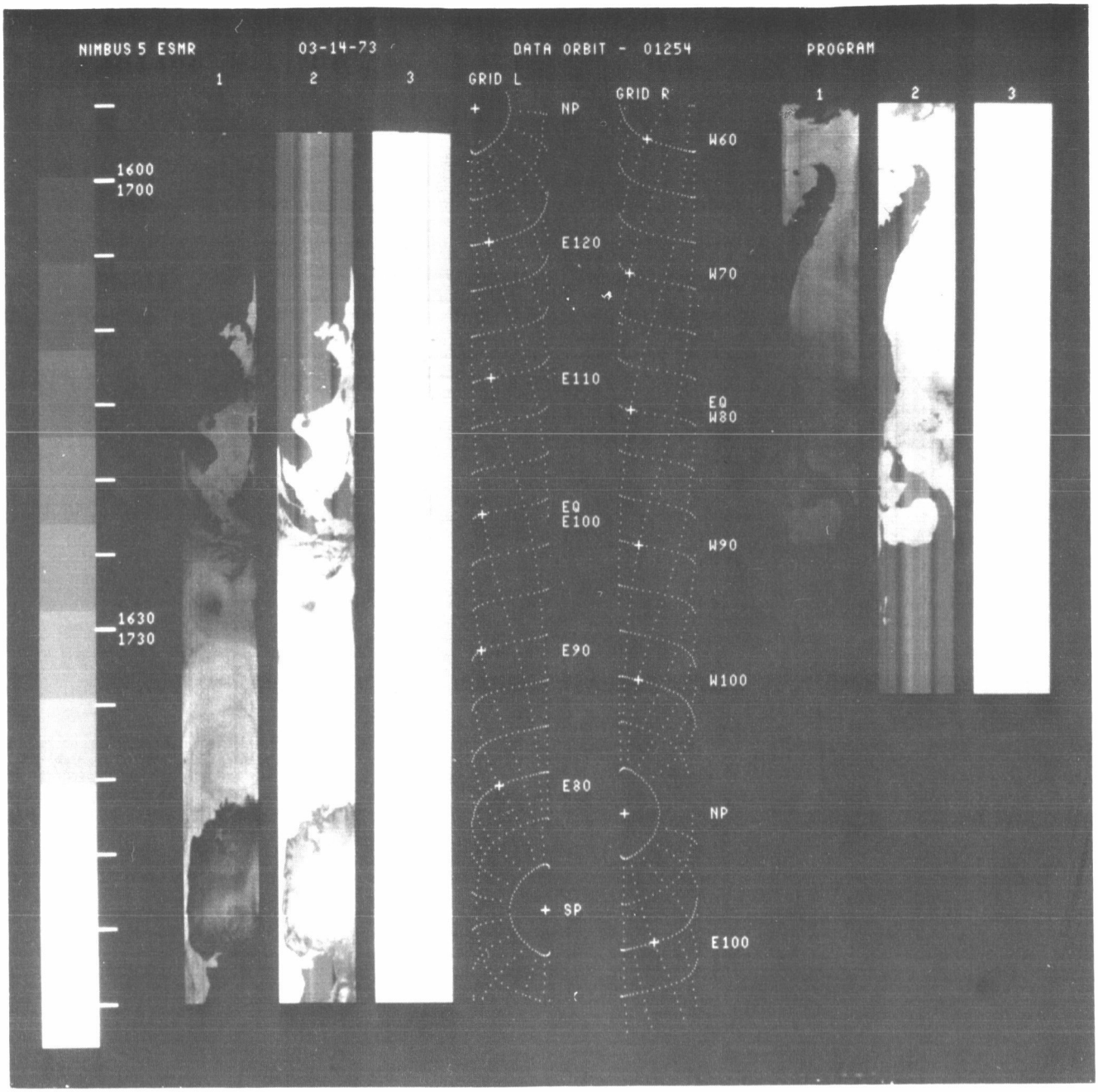

NIMBUS 5 ESMR
03-09-73
DATA ORBIT - 01185
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
E170
W20
E160
EQ
W30
EQ
E150
W40
E140
W50
E130
NP
SP
E150
W10
E130
1300
1400
1330
1430

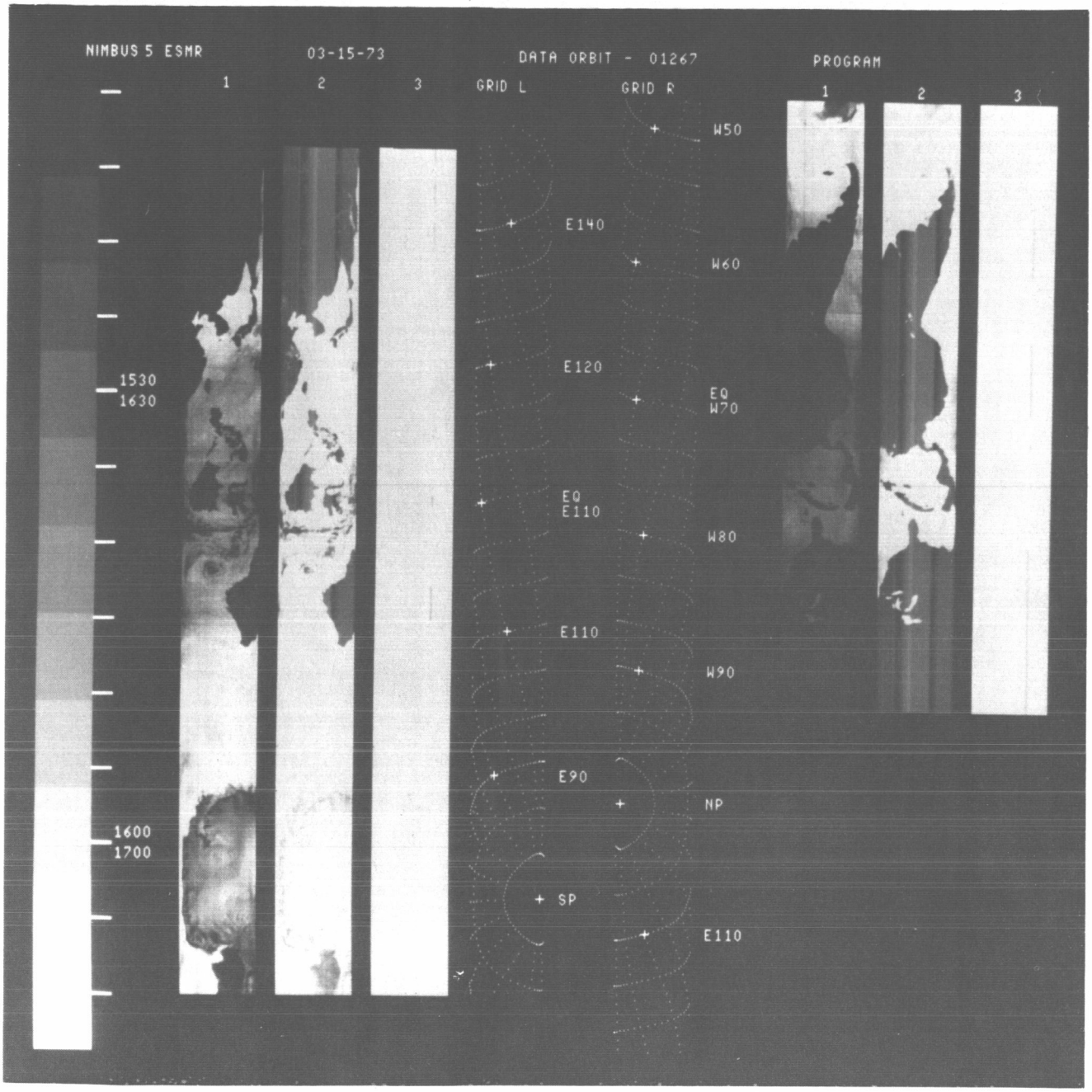

NIMBUS 5 ESMR
03-10-73
DATA ORBIT - 01198
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
1200
1300
1230
1330
W170
W10
E170
EQ
W20
EQ
E160
W30
E160
W40
E140
NP
SP
E160
E00
E150

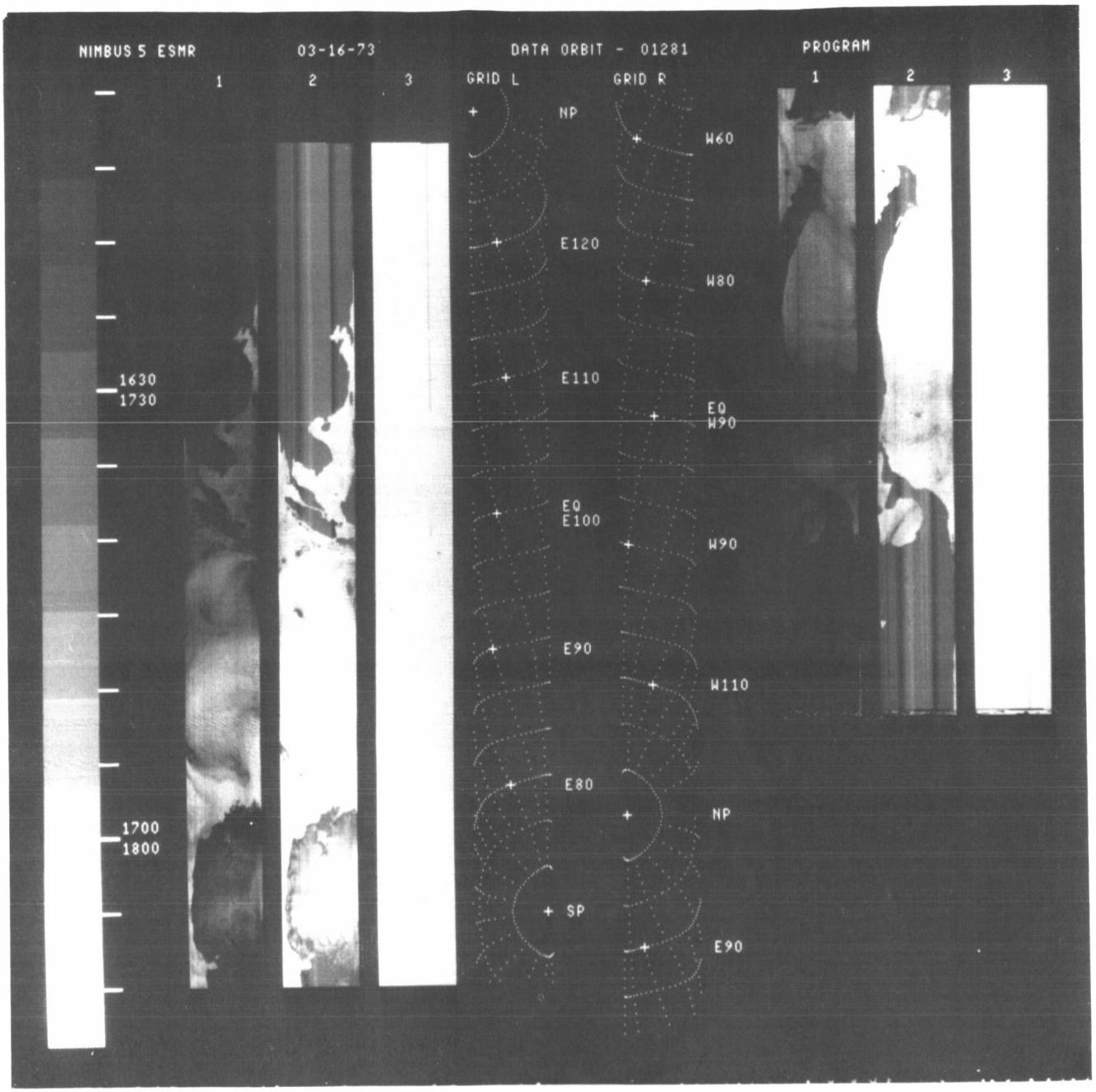

NIMBUS 5 ESMR
03-11-73
DATA ORBIT - 01211
PROGRAM
1
2
3
GRID L
GRID R
W160
E00
W180
EQ
W10
EQ
W180
W20
E170
W30
E150
NP
SP
E170
E10
E160
1130
1230
1200
1300

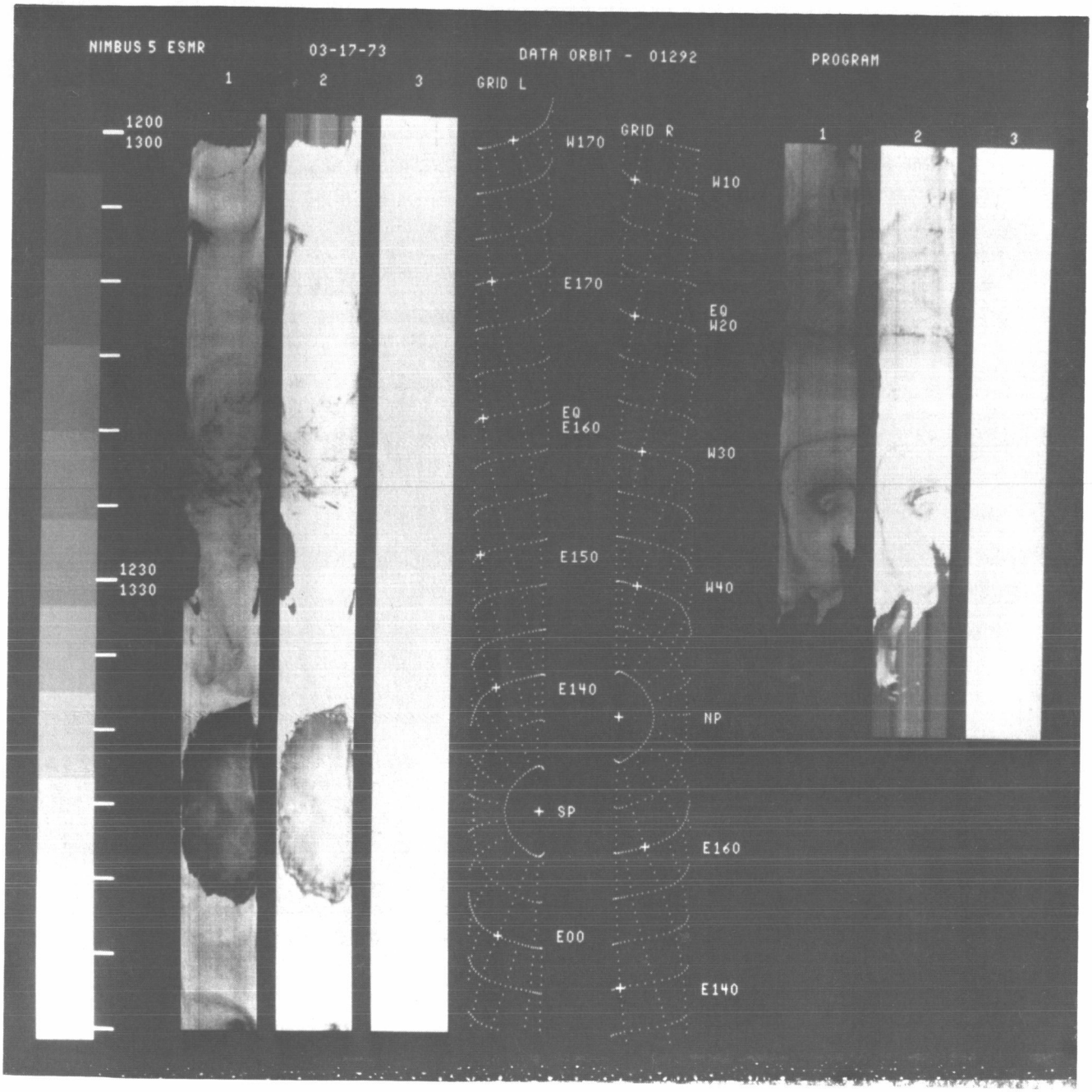

NIMBUS 5 ESMR
03-12-73
DATA ORBIT - 01227
PROGRAM
1
2
3
GRID L
GRID R
NP
W60
E130
W70
E110
EQ
W80
EQ
E110
W90
E100
W100
E80
NP
SP
E100
1600
1700
1630
1730

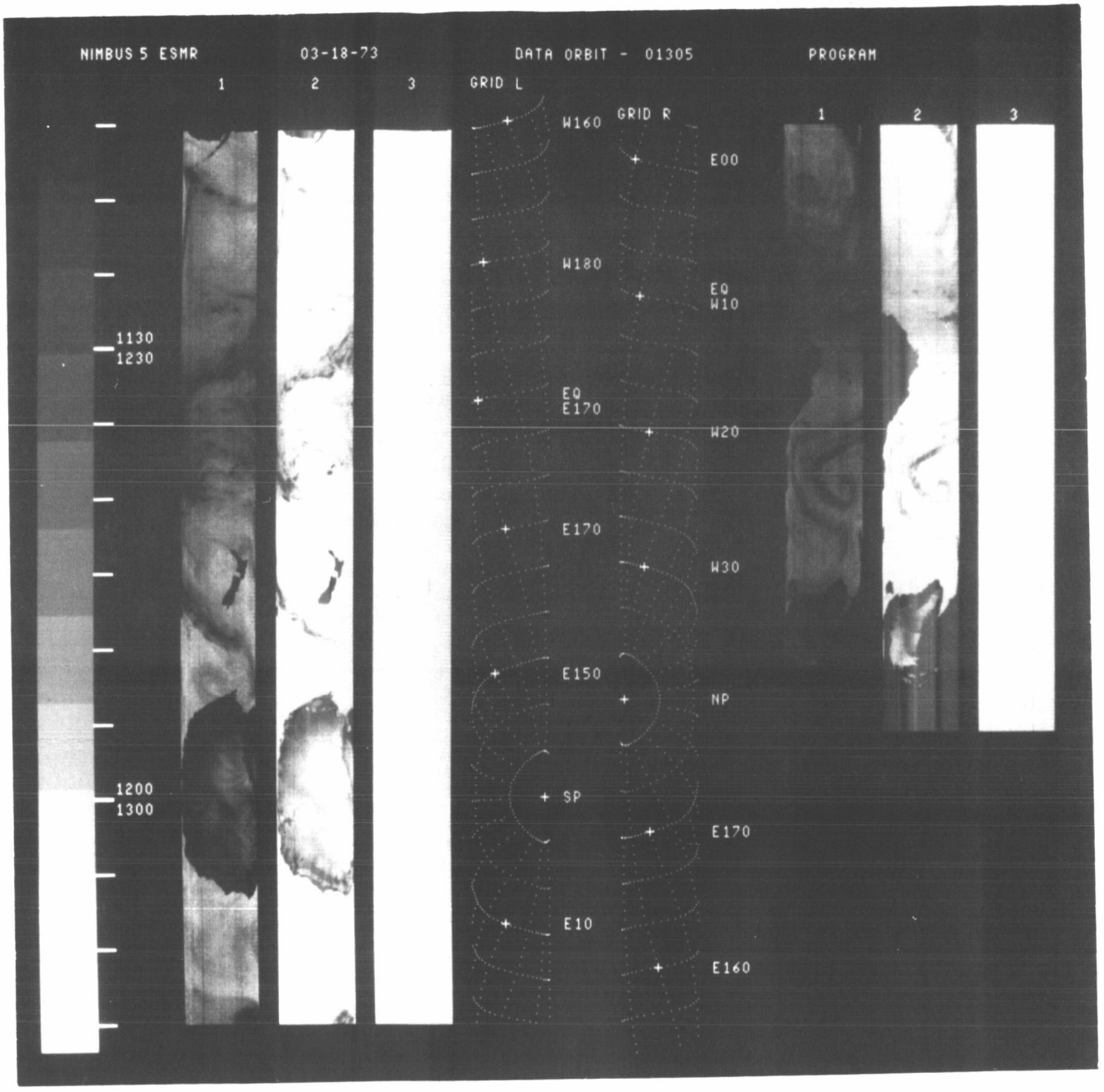

NIMBUS 5 ESMR
03-13-73
DATA ORBIT - 01242
PROGRAM
1
2
3
GRID L
GRID R
1830
1930
1900
2000
NP
E90
E70
EQ
E60
E60
E40
SP
W100
W110
EQ
W120
W130
W140
NP
E60

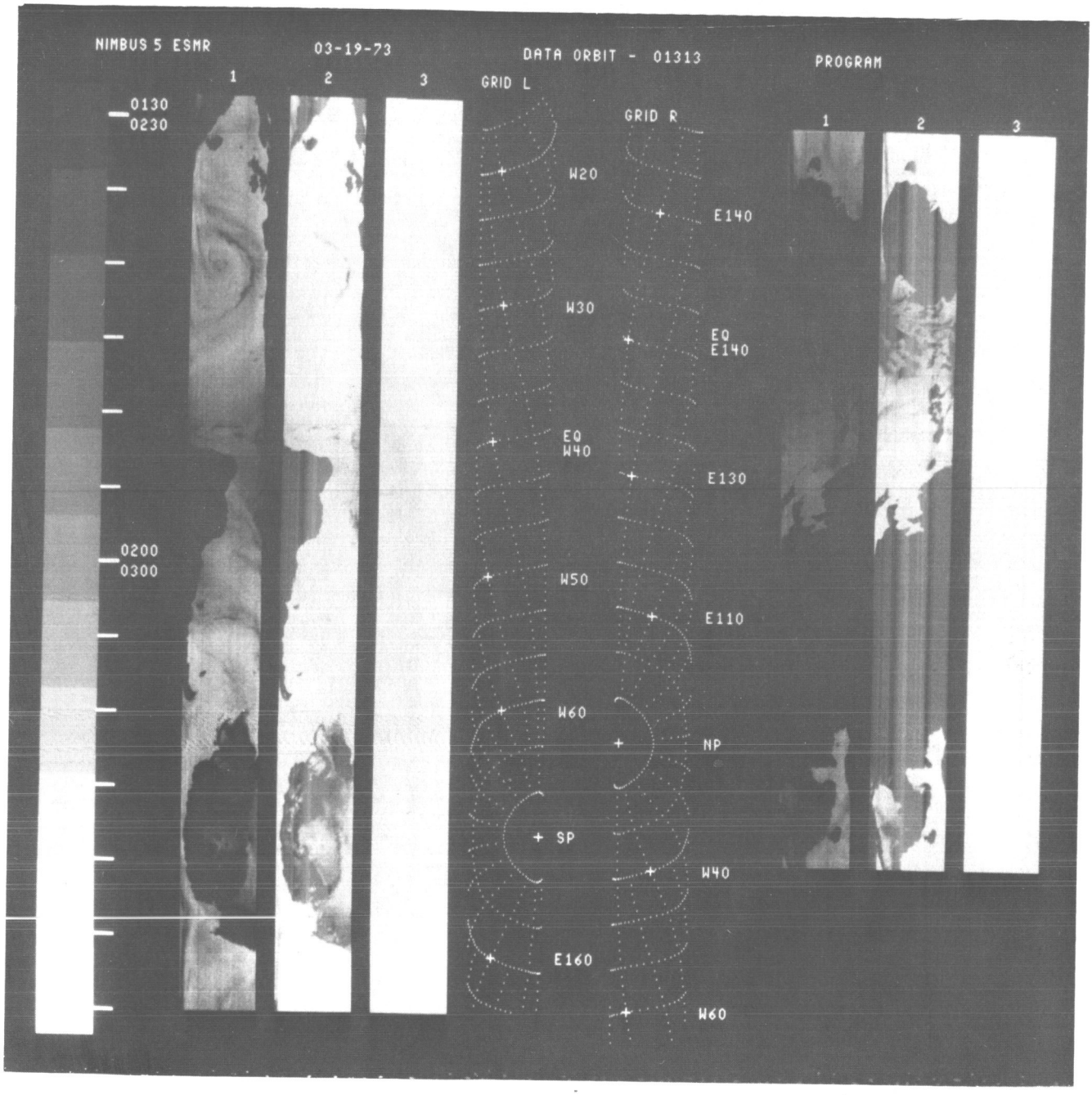

NIMBUS 5 ESMR
03-14-73
DATA ORBIT - 01254
PROGRAM
1
2
3
GRID L
GRID R
1600
1700
1630
1730
NP
W60
E120
W70
E110
EQ
W80
EQ
E100
W90
E90
W100
E80
NP
SP
E100

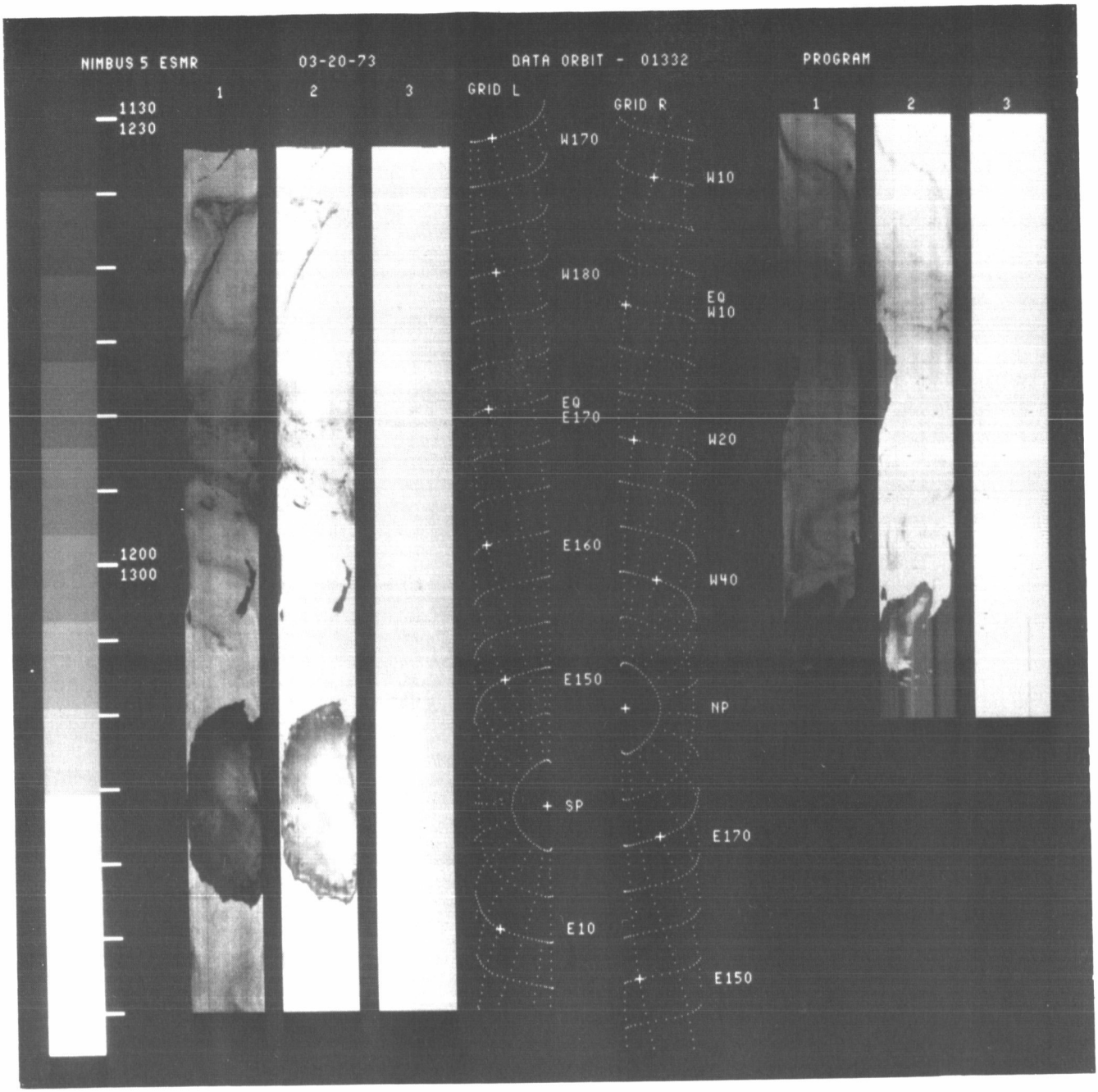

NIMBUS 5 ESMR
03-15-73
DATA ORBIT - 01267
PROGRAM
1
2
3
GRID L
GRID R
W50
E140
W60
E120
EQ
W70
EQ
E110
W80
E110
W90
E90
NP
SP
E110
1530
1630
1600
1700

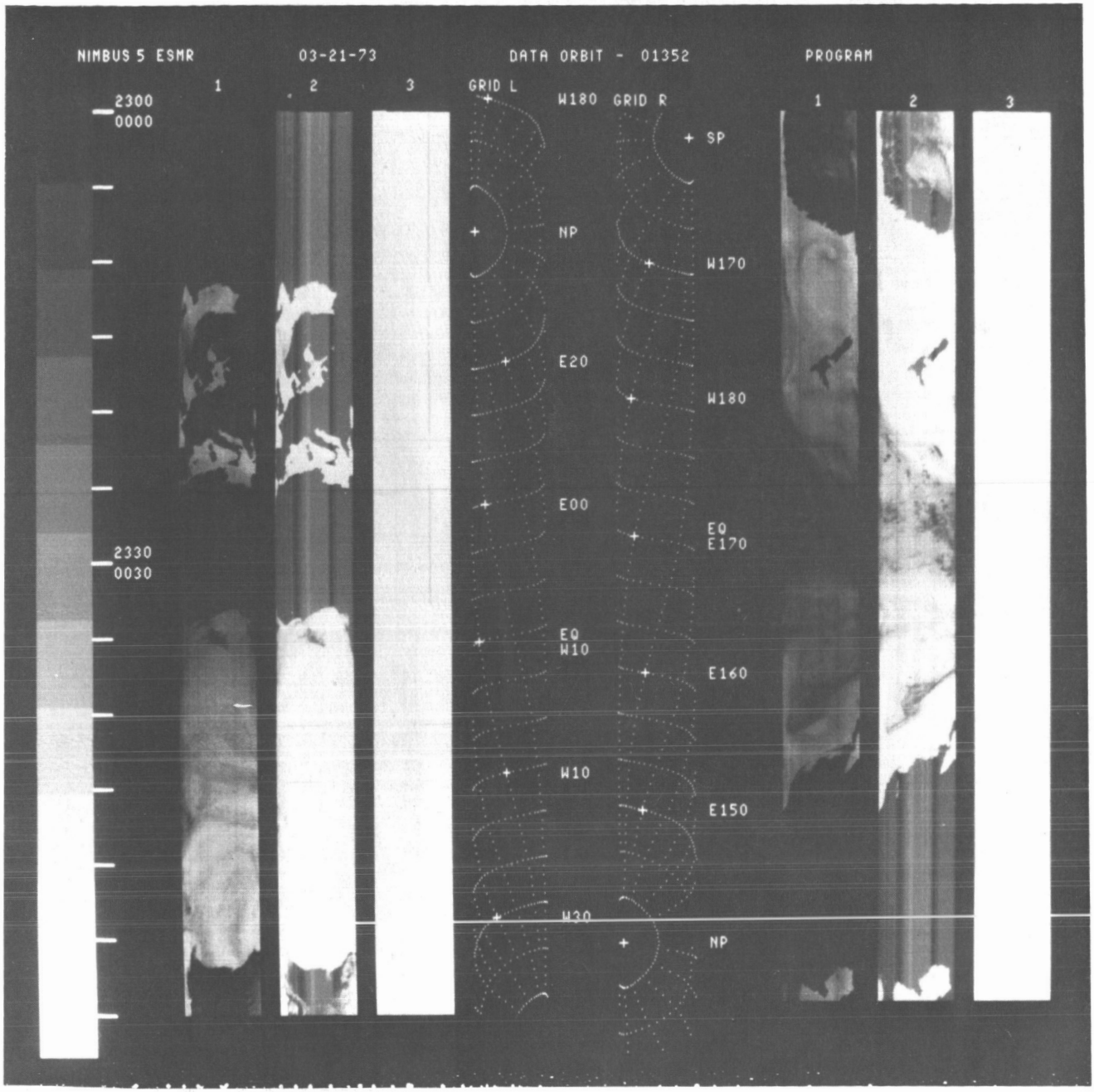

NIMBUS 5 ESMR
03-16-73
DATA ORBIT - 01281
PROGRAM
1
2
3
GRID L
GRID R
NP
W60
E120
W80
E110
EQ
W90
EQ
E100
W90
E90
W110
E80
NP
SP
E90
1630
1730
1700
1800

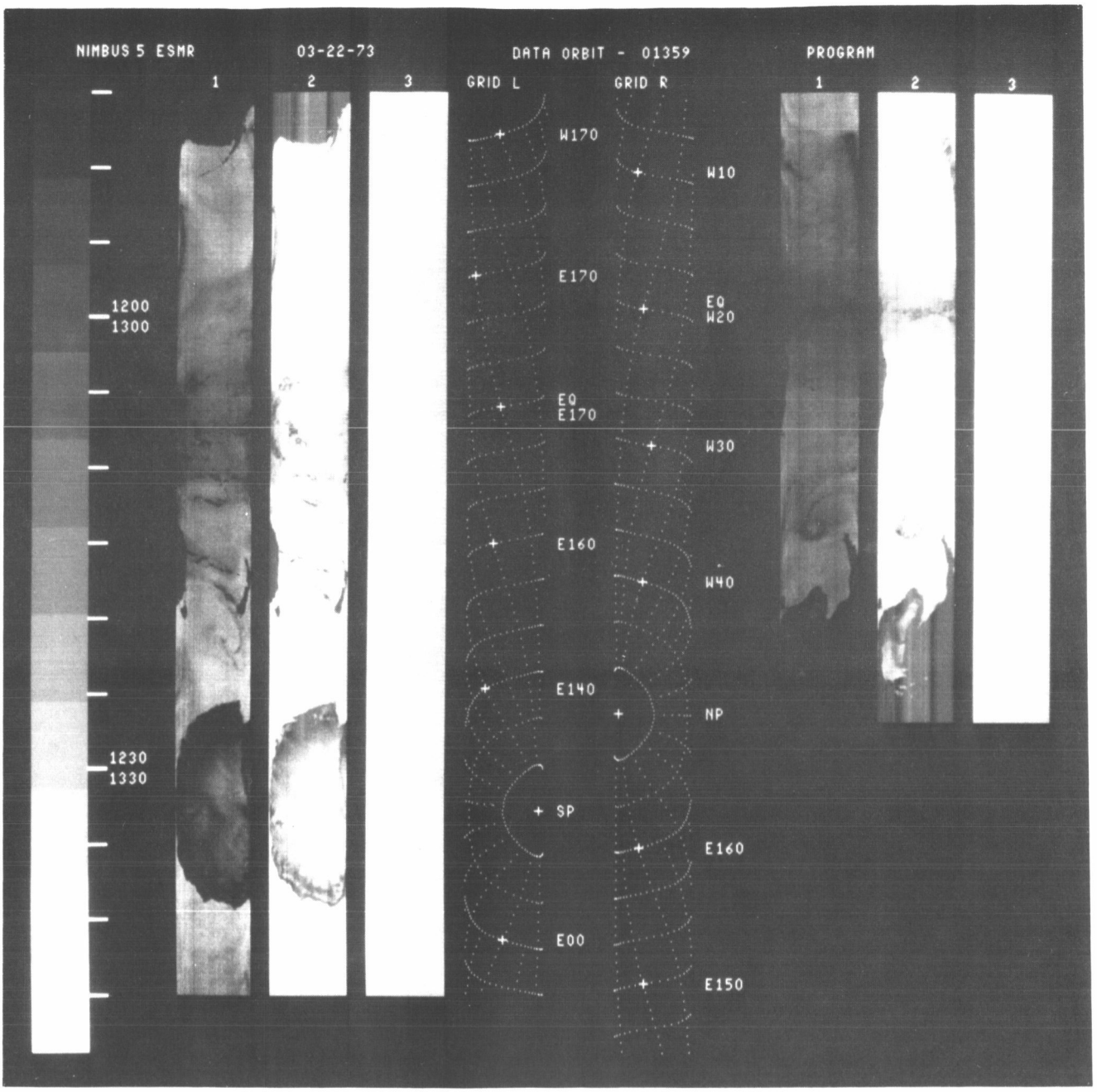

NIMBUS 5 ESMR
03-17-73
DATA ORBIT - 01292
PROGRAM
1
2
3
GRID L
GRID R
1200
1300
1230
1330
W170
W10
E170
EQ
W20
EQ
E160
W30
E150
W40
E140
NP
SP
E160
E00
E140

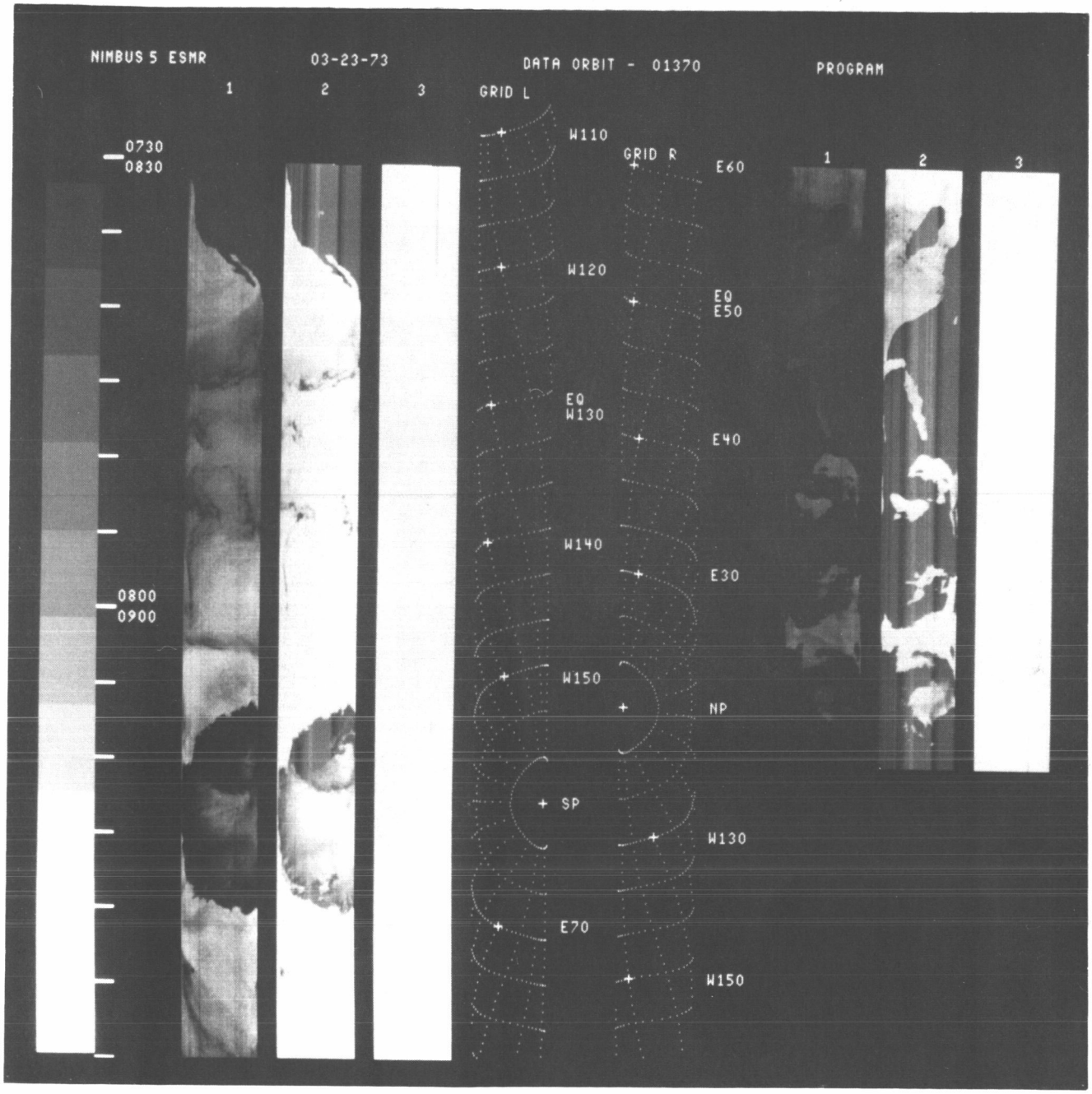

NIMBUS 5 ESMR
03-18-73
DATA ORBIT - 01305
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
W160
E00
W180
EQ
W10
EQ
E170
W20
E170
W30
E150
NP
SP
E170
E10
E160
1130
1230
1200
1300

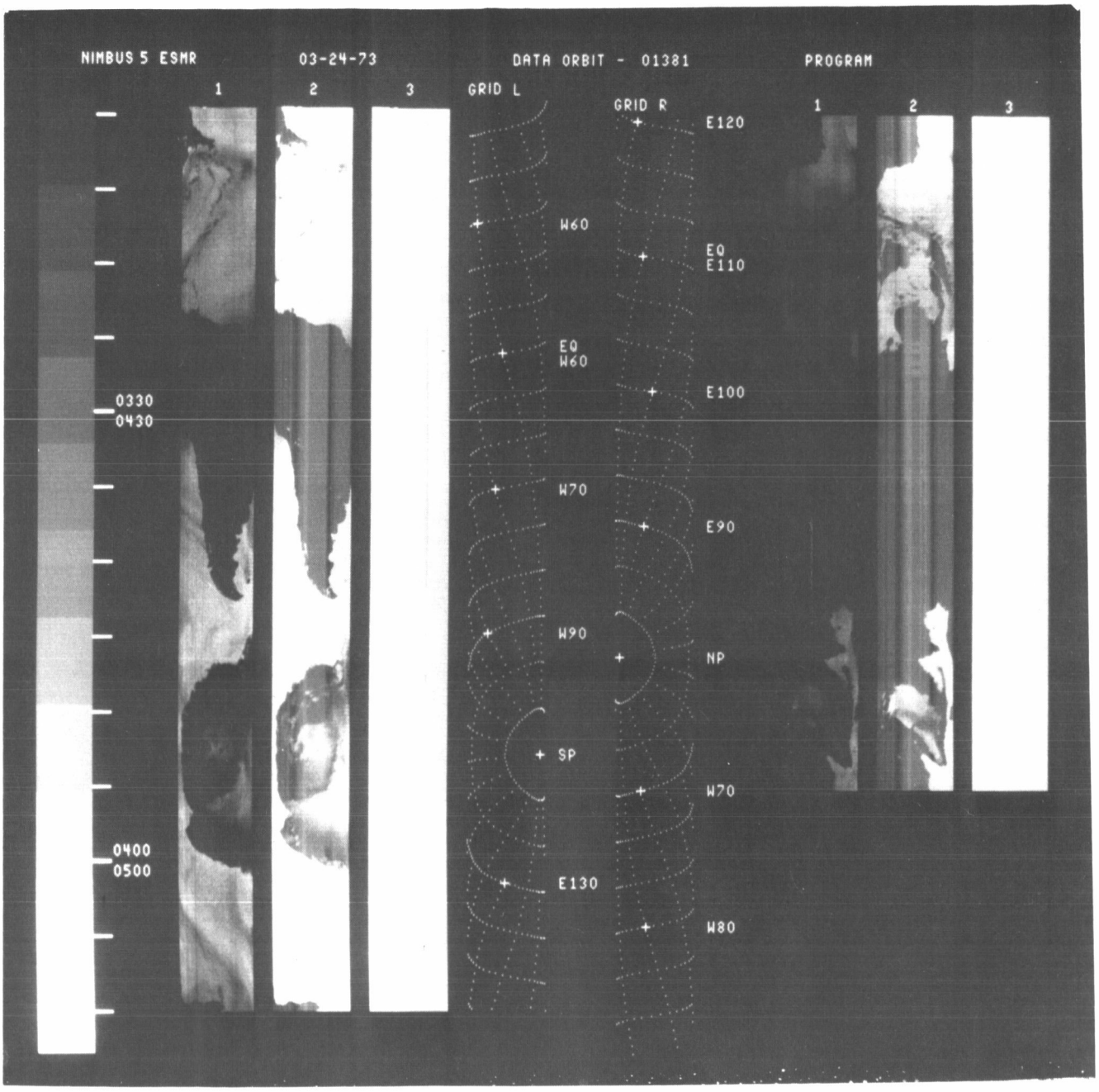

NIMBUS 5 ESMR
03-19-73
DATA ORBIT - 01313
PROGRAM
1
2
3
GRID L
GRID R
0130
0230
0200
0300
W20
E140
W30
EQ
E140
EQ
W40
E130
W50
E110
W60
NP
SP
W40
E160
W60

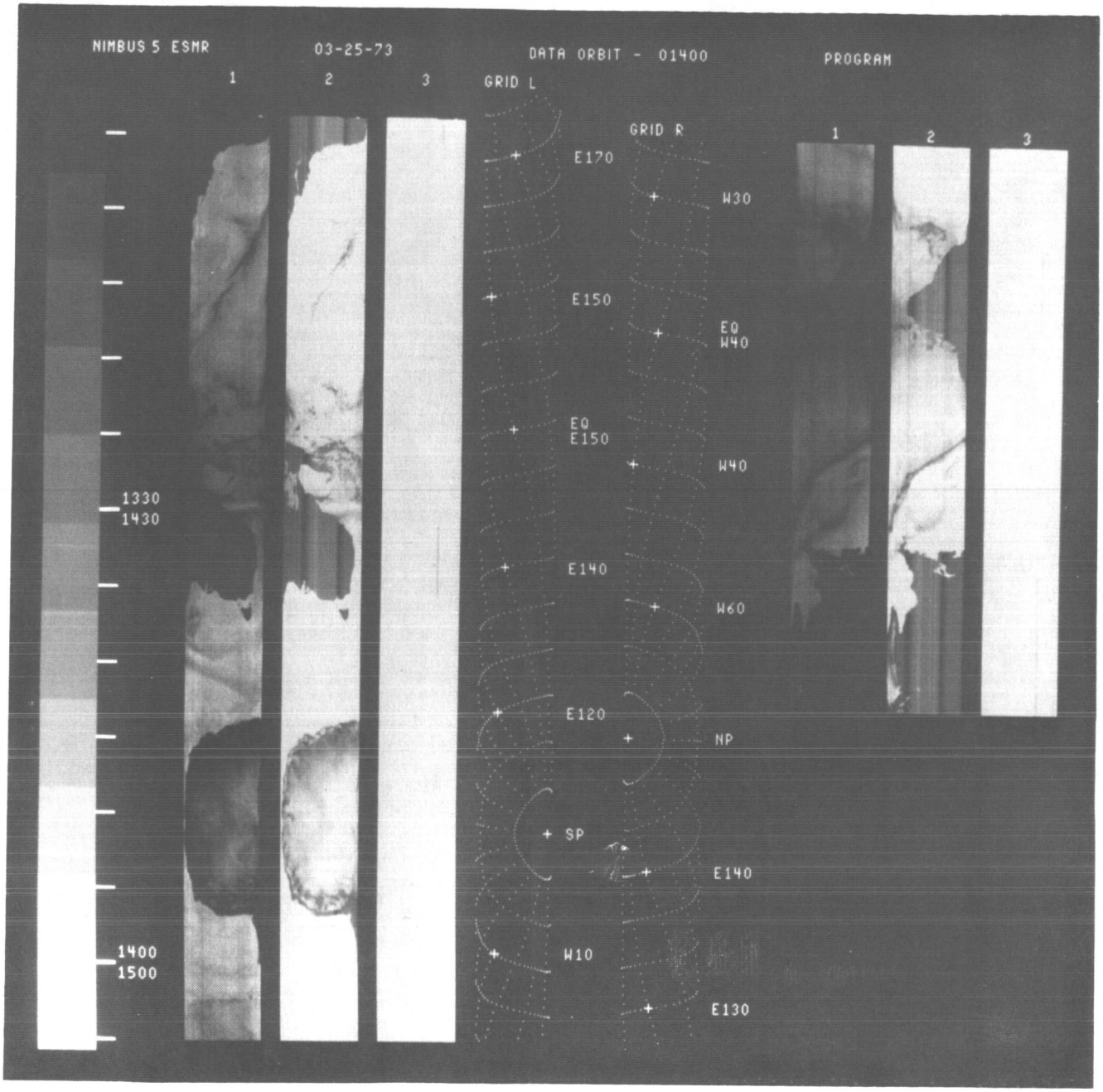

NIMBUS 5 ESMR
03-20-73
DATA ORBIT - 01332
PROGRAM
1
2
3
GRID L
GRID R
1130
1230
1200
1300
W170
W10
W180
EQ
W10
EQ
E170
W20
E160
W40
E150
NP
SP
E170
E10
E150

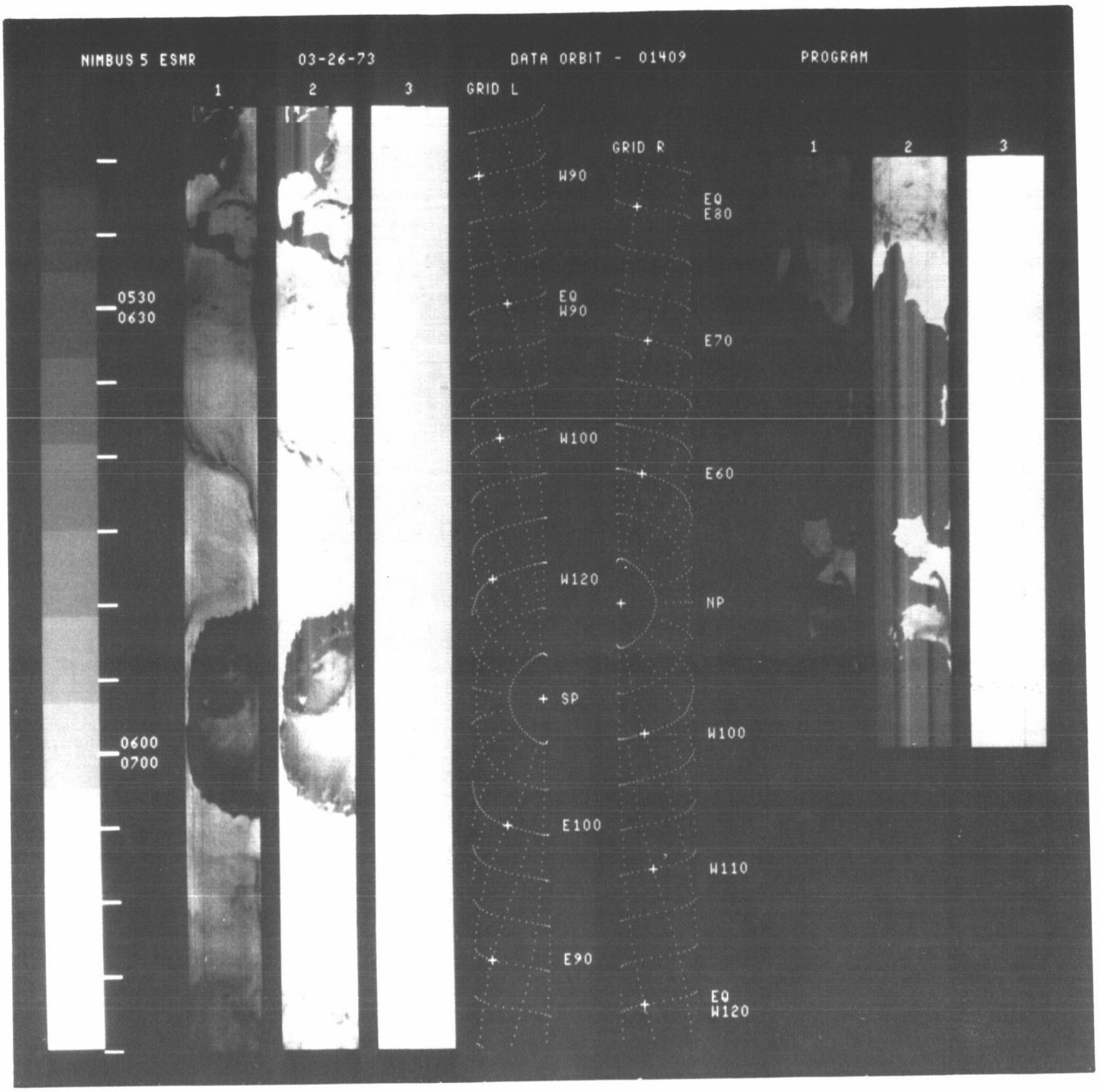

NIMBUS 5 ESMR
03-21-73
DATA ORBIT - 01352
PROGRAM
1
2
3
GRID L
GRID R
2300
0000
2330
0030
W180
SP
NP
W170
E20
W180
E00
EQ
E170
EQ
W10
E160
W10
E150
W30
NP

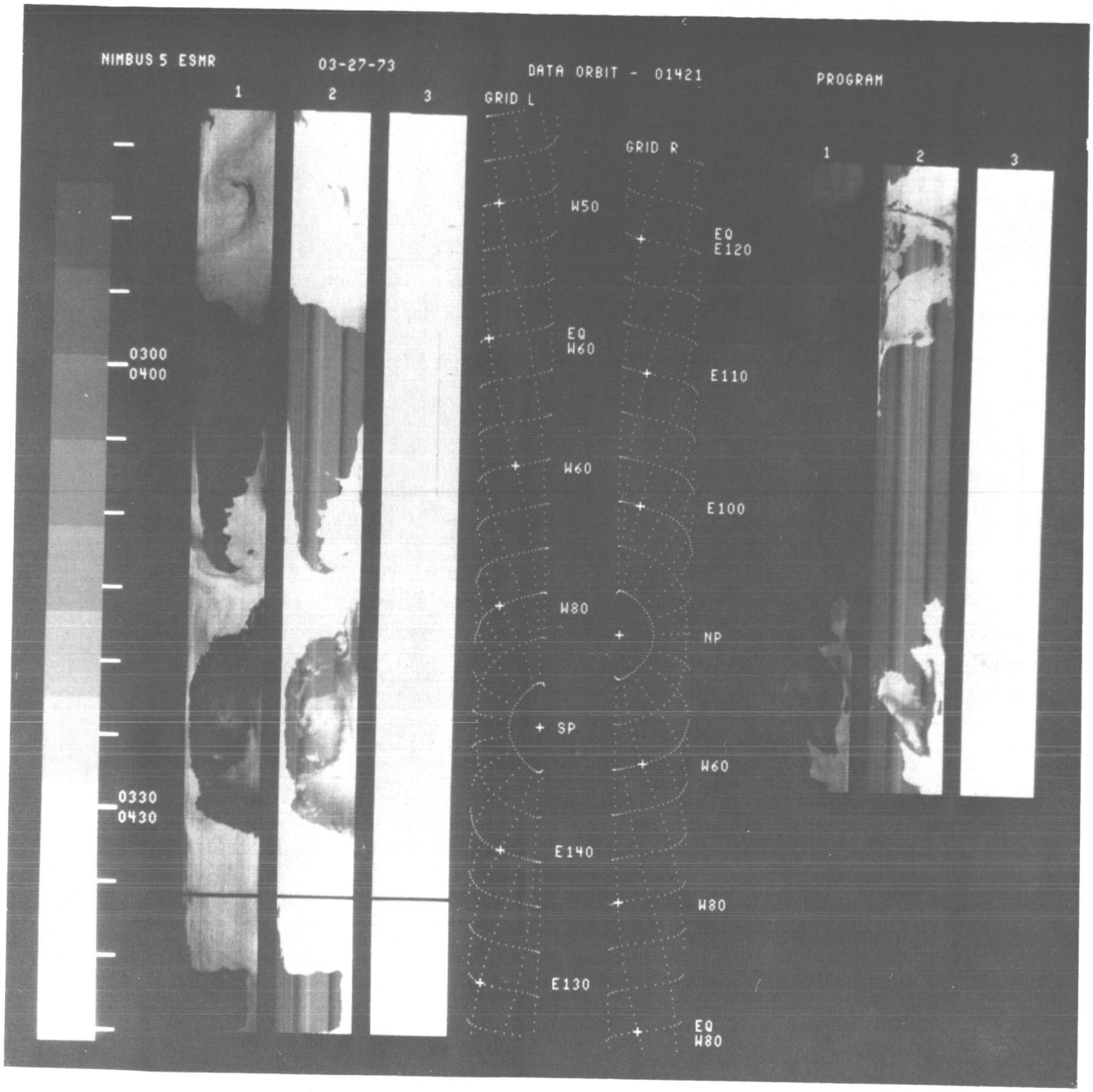

NIMBUS 5 ESMR
03-22-73
DATA ORBIT - 01359
PROGRAM
1
2
3
GRID L
GRID R
1200
1300
1230
1330
W170
W10
E170
EQ
W20
EQ
E170
W30
E160
W40
E140
NP
SP
E160
E00
E150

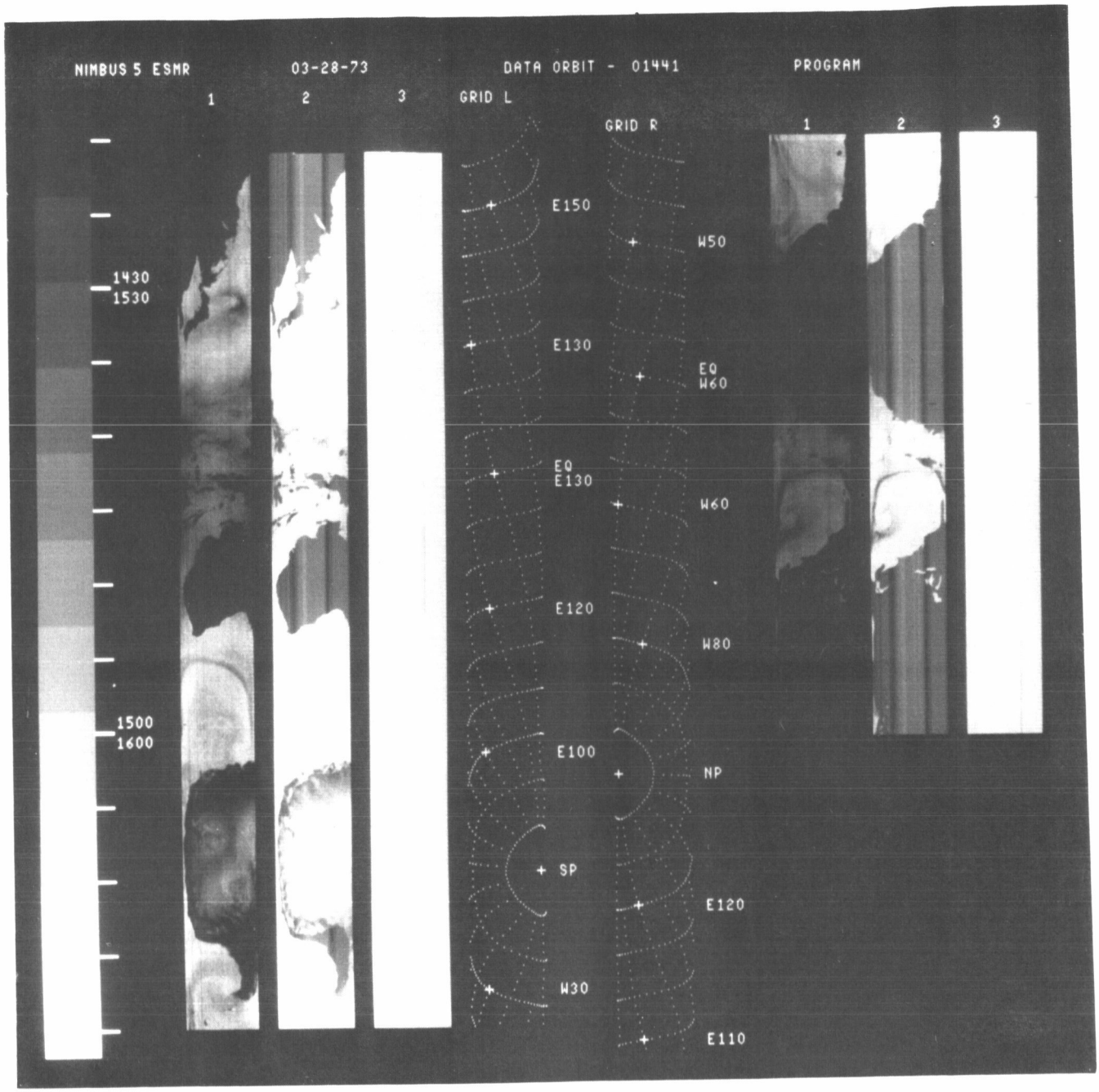

NIMBUS 5 ESMR
03-23-73
DATA ORBIT - 01370
PROGRAM
1
2
3
GRID L
GRID R
0730
0830
0800
0900
W110
W120
EQ
W130
W140
W150
SP
E70
E60
EQ
E50
E40
E30
NP
W130
W150
1
2
3

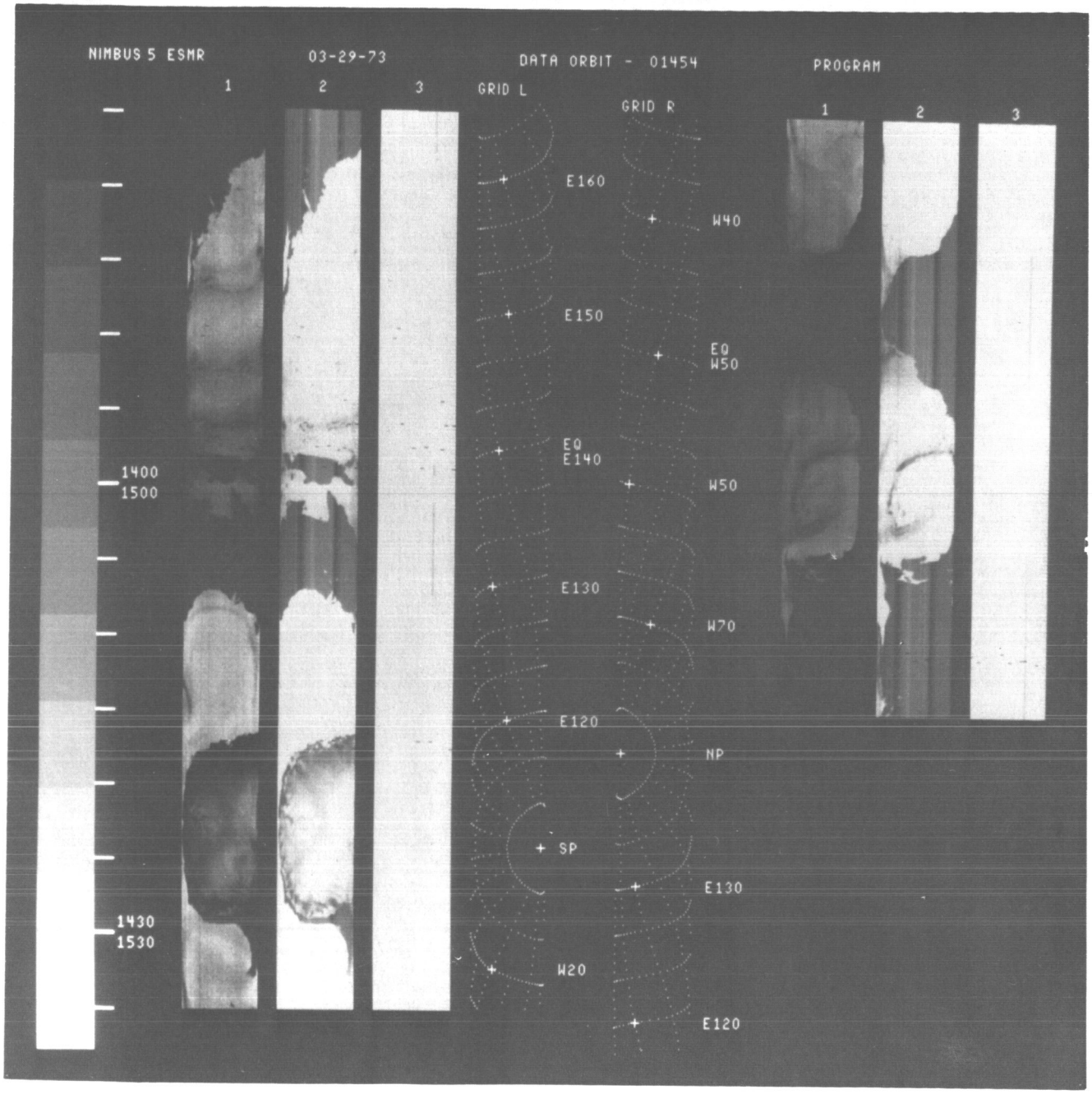

NIMBUS 5 ESMR
03-24-73
DATA ORBIT - 01381
PROGRAM
1
2
3
GRID L
GRID R
E120
W60
EQ
E110
EQ
W60
E100
0330
0430
W70
E90
W90
NP
SP
W70
0400
0500
E130
W80

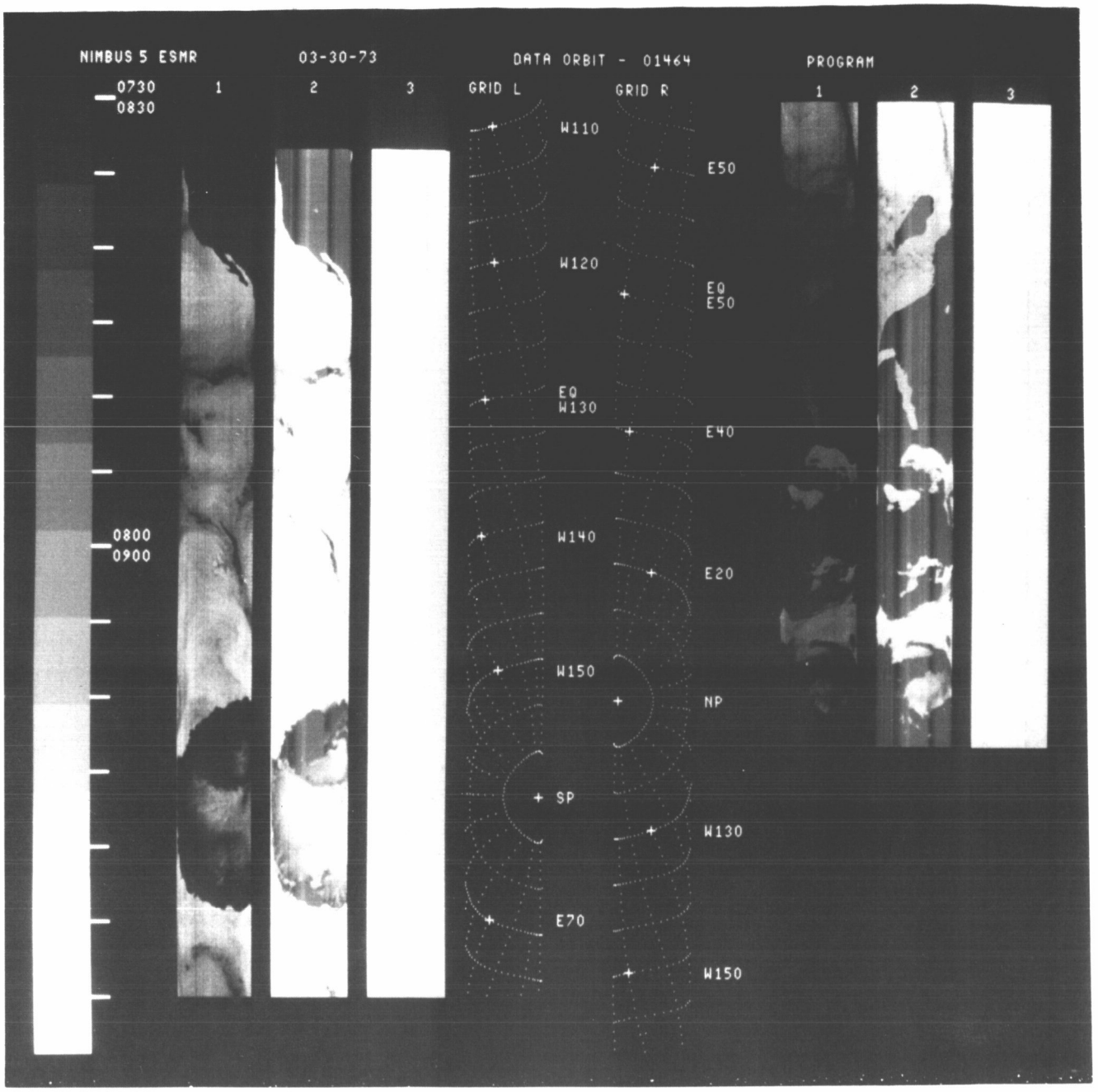

NIMBUS 5 ESMR
03-25-73
DATA ORBIT - 01400
PROGRAM
1
2
3
GRID L
GRID R
E170
W30
E150
EQ
W40
EQ
E150
W40
E140
W60
E120
NP
SP
E140
W10
E130
1330
1430
1400
1500

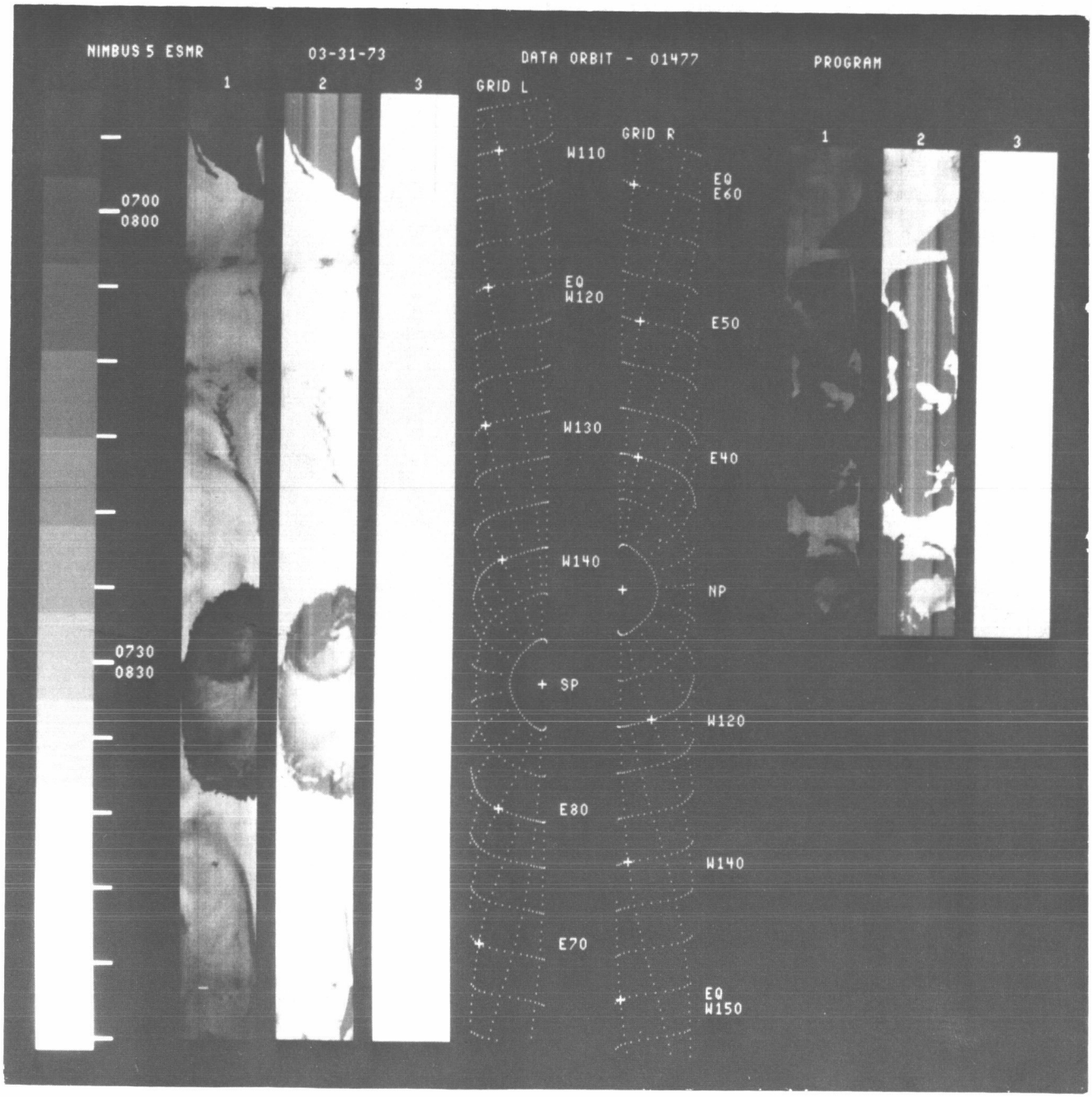

NIMBUS 5 ESMR
03-26-73
DATA ORBIT - 01409
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
0530
0630
0600
0700
W90
EQ
E80
EQ
W90
E70
W100
E60
W120
NP
SP
W100
E100
W110
E90
EQ
W120


NIMBUS 5 ESMR
03-27-73
DATA ORBIT - 01421
PROGRAM
1
2
3
GRID L
GRID R
W50
EQ
E120
EQ
W60
E110
W60
E100
W80
NP
SP
W60
E140
W80
E130
EQ
W80
0300
0400
0330
0430


NIMBUS 5 ESMR
03-28-73
DATA ORBIT - 01441
PROGRAM
1
2
3
GRID L
GRID R
1
2
3
1430
1530
1500
1600
E150
W50
E130
EQ
W60
EQ
E130
W60
E120
W80
E100
NP
SP
E120
W30
E110


NIMBUS 5 ESMR
03-29-73
DATA ORBIT - 01454
PROGRAM
1
2
3
GRID L
GRID R
E160
W40
E150
EQ
W50
EQ
E140
W50
E130
W70
E120
NP
SP
E130
W20
E120
1400
1500
1430
1530


NIMBUS 5 ESMR
03-30-73
DATA ORBIT - 01464
PROGRAM
0730
0830
1
2
3
GRID L
GRID R
1
2
3
W110
E50
W120
EQ
E50
EQ
W130
E40
0800
0900
W140
E20
W150
NP
SP
W130
E70
W150


NIMBUS 5 ESMR
03-31-73
DATA ORBIT - 01477
PROGRAM
1
2
3
GRID L
GRID R
0700
0800
0730
0830
W110
EQ
E60
EQ
W120
E50
W130
E40
W140
NP
SP
W120
E80
W140
E70
EQ
W150

# SECTION 4

## TEMPERATURE HUMIDITY INFRARED RADIOMETER MONTAGES

This section pictorially documents the data from the Temperature Humidity Infrared Radiometer subsystem carried on the Nimbus 5 Meteorological Satellite. Section 4.1 contains all nighttime THIR 11.5 and 6.7 micrometer montages and Section 4.2 contains all daytime THIR 11.5 and 6.7 micrometer montages, arranged in chronological order. Key latitudes can be read from the superposed grids. Grid points are identified where each swath crosses 60°N, 30°N, EQUATOR, 30°S, and 60°S.

Vellum Location Guide overlays, attached to the back of this document, may be used for general orientation with the data presented in each THIR montage. Proper alignment of the overlay grid is accomplished by matching the grid indices on the equator with the two "T" marks on each montage.

Each THIR montage is provided with a time scale to determine the Greenwich Mean Time limits required to order processed THIR grid print maps (see page 38, The Nimbus 5 User's Guide). The time scale is used to determine the number of minutes from ascending (daytime data) or descending (nighttime data) node time for the interval of data required. To obtain the GMT for daytime data, the measured time is to be added to the ascending node time in the northern hemisphere and subtracted in the southern hemisphere. For nighttime data, the measured time is to be subtracted from the descending node time in the northern hemisphere and added in the southern hemisphere. The ascending and descending node times are given in Table 2-2 of Section 2.

The following alternate procedure also establishes GMT limits. Knowing the latitude limits of the study area, the minutes from ascending or descending node can be directly interpolated from Table 4-1. These time values can then be added to or subtracted from node times given in Table 2-2 of Section 2.

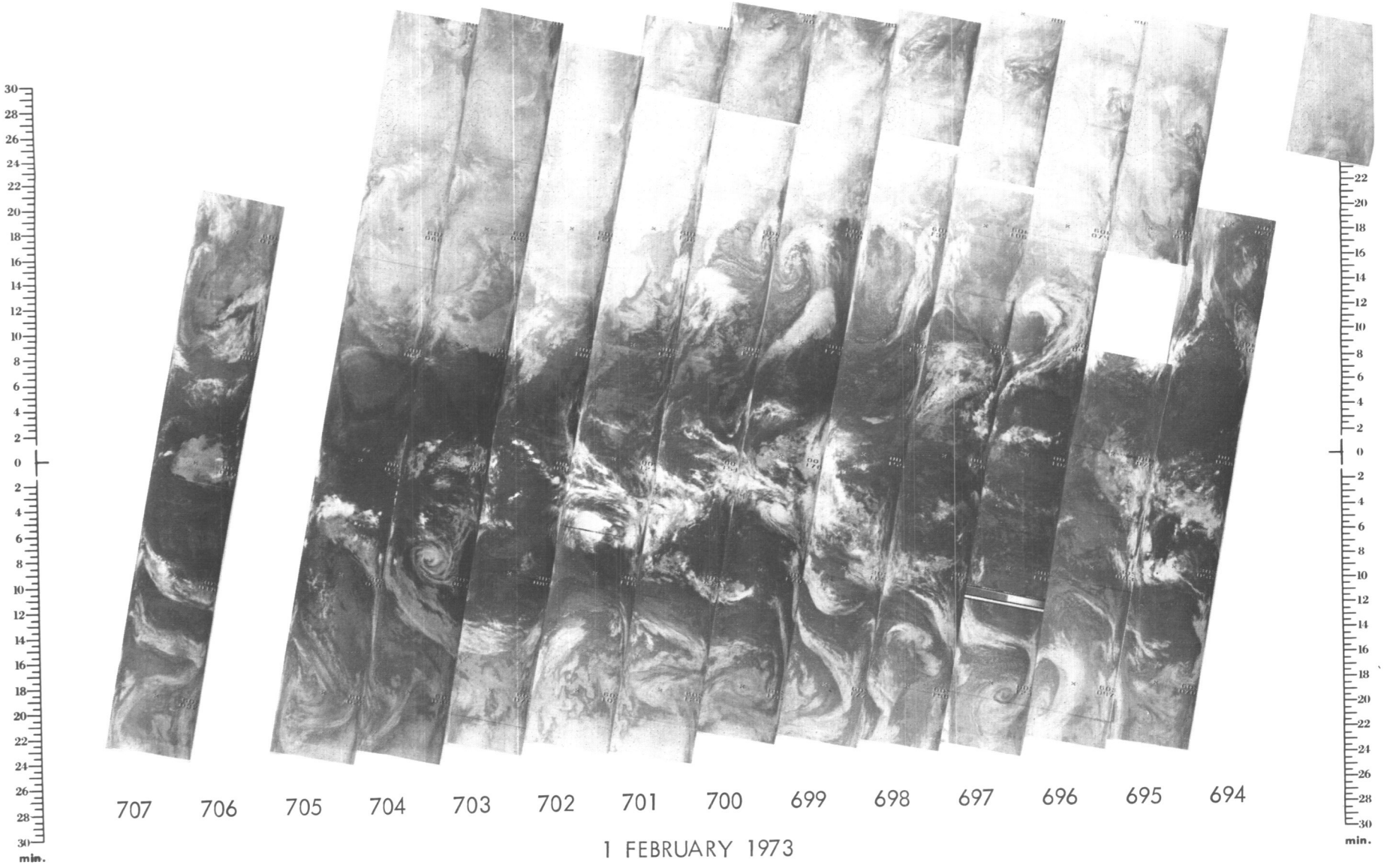
A description of the THIR experiment and instructions for ordering THIR data may be found in The Nimbus 5 User's Guide, Section 2.

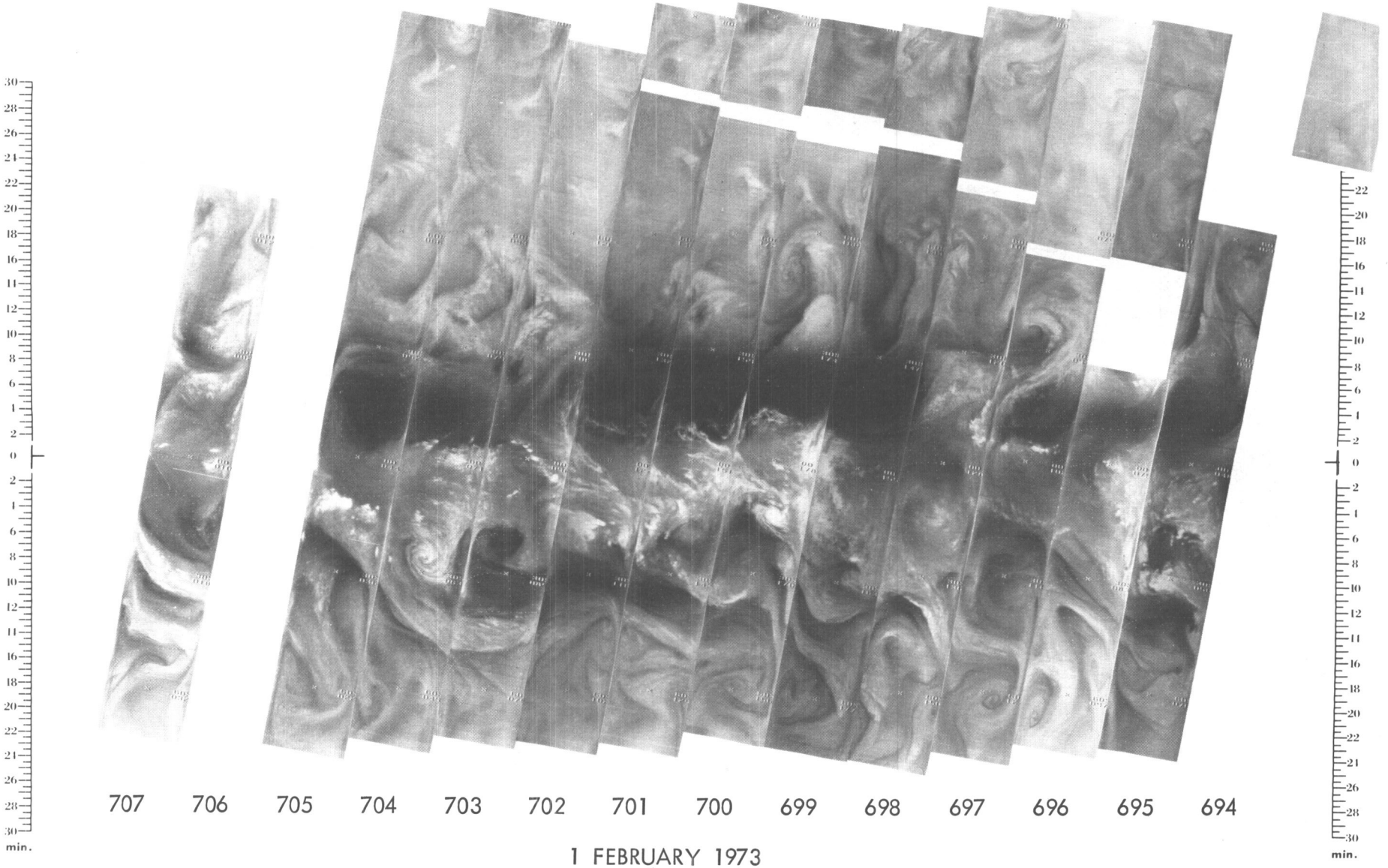
Table 4-1

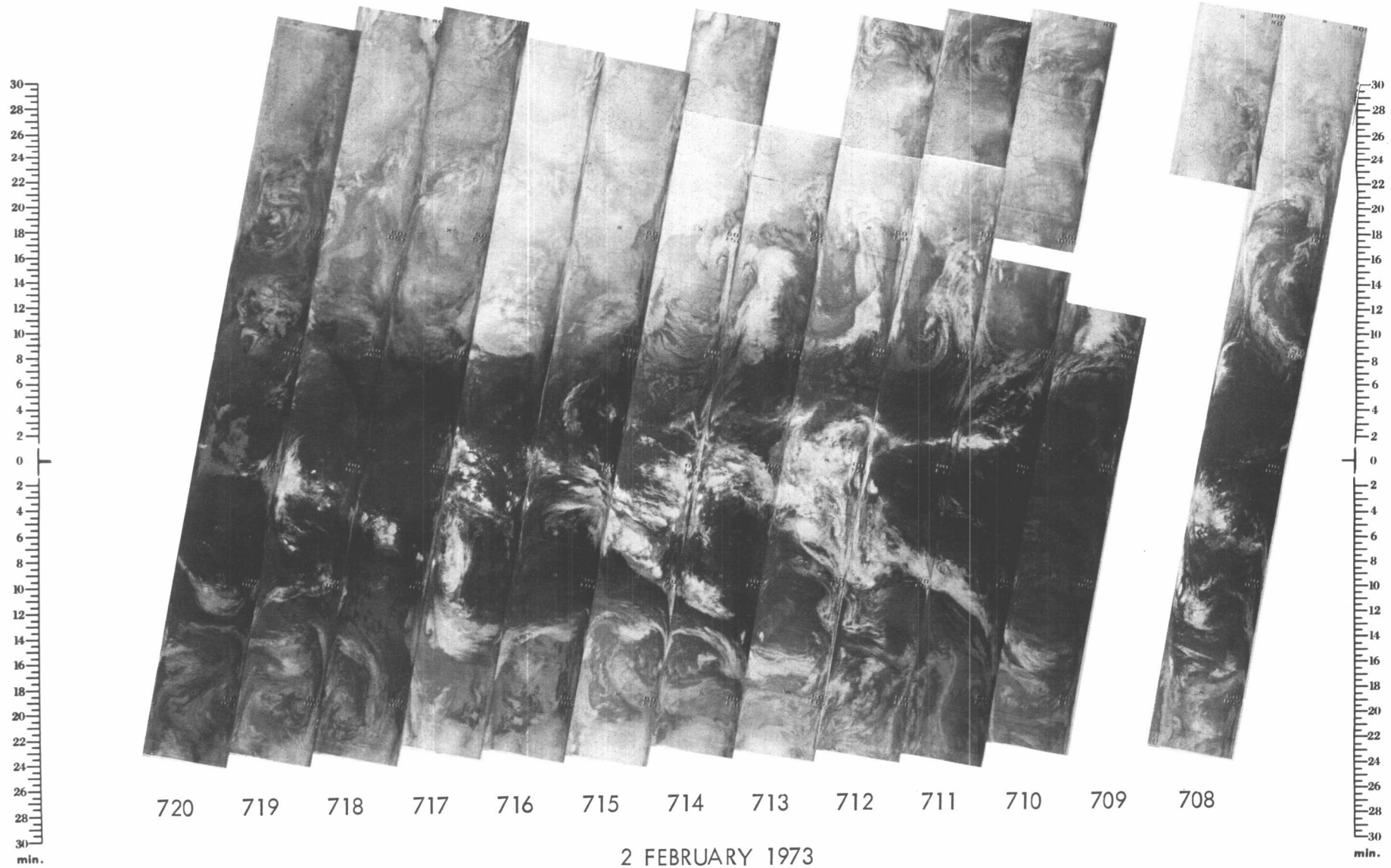
LATITUDE VERSUS MINUTES FROM
ASCENDING OR DESCENDING NODE

| Latitude from AN or DN | Minutes and Seconds from AN or DN |
|---|---|
| 0 | 0:00 |
| 5 | 1:31 |
| 10 | 3:02 |
| 15 | 4:33 |
| 20 | 6:03 |
| 25 | 7:34 |
| 30 | 9:05 |
| 35 | 10:36 |
| 40 | 12:08 |
| 45 | 13:40 |
| 50 | 15:12 |
| 55 | 16:44 |
| 60 | 18:18 |
| 65 | 19:52 |
| 70 | 21:33 |
| 75 | 23:26 |
| 78 | 24:44 |
| 80.1 | 26:49 |
| 78 | 29:00 |
| 75 | 30:09 |
| 70 | 31:51 |
| 65 | 33:35 |

# SECTION 4.1
# TEMPERATURE HUMIDITY INFRARED RADIOMETER
# NIGHTTIME MONTAGES

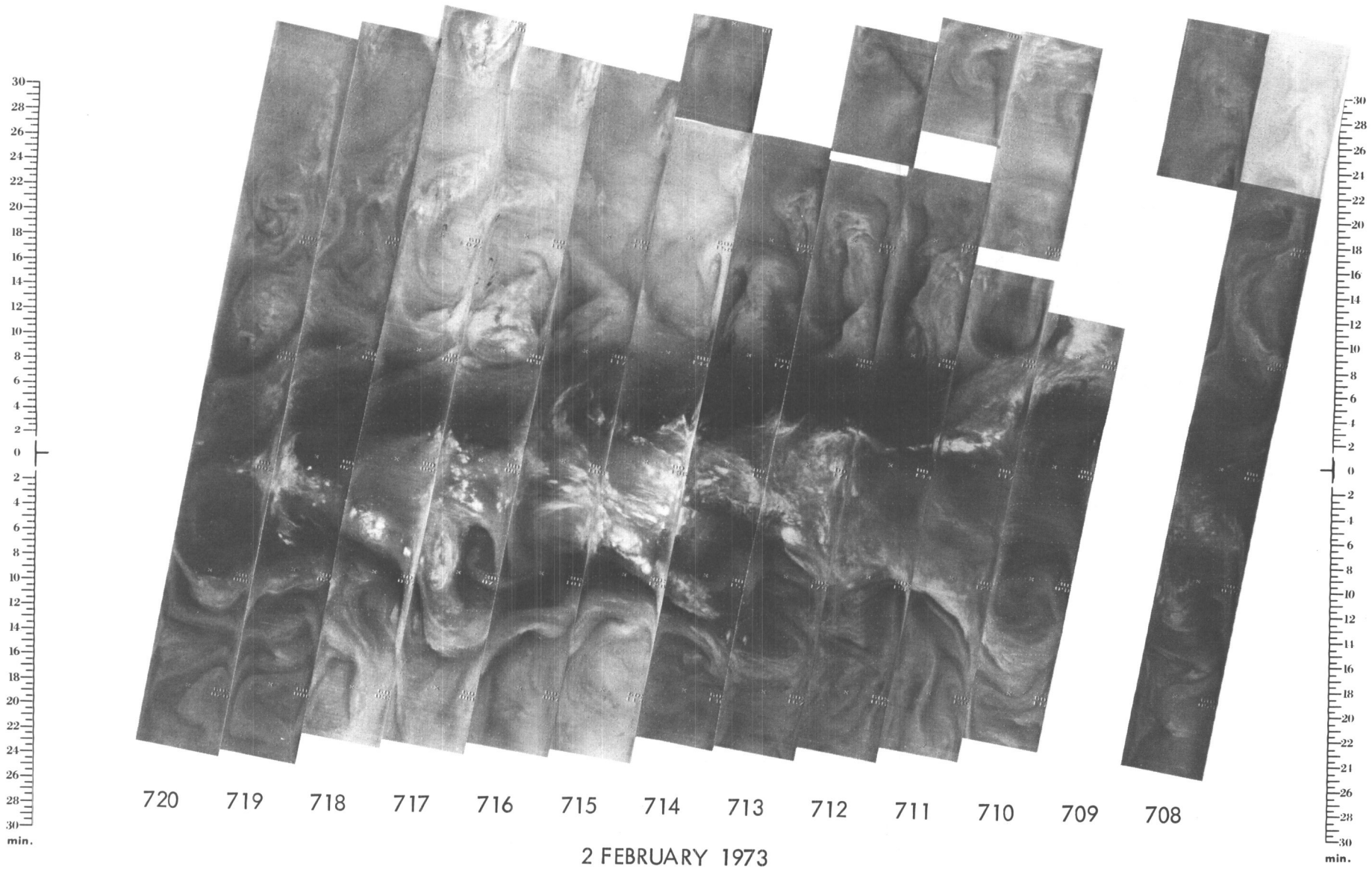

707
706
705
704
703
702
701
700
699
698
697
696
695
694
1 FEBRUARY 1973
11.5 μm
min.
min.


707
706
705
704
703
702
701
700
699
698
697
696
695
694
1 FEBRUARY 1973
6.7 μm
min.
min.



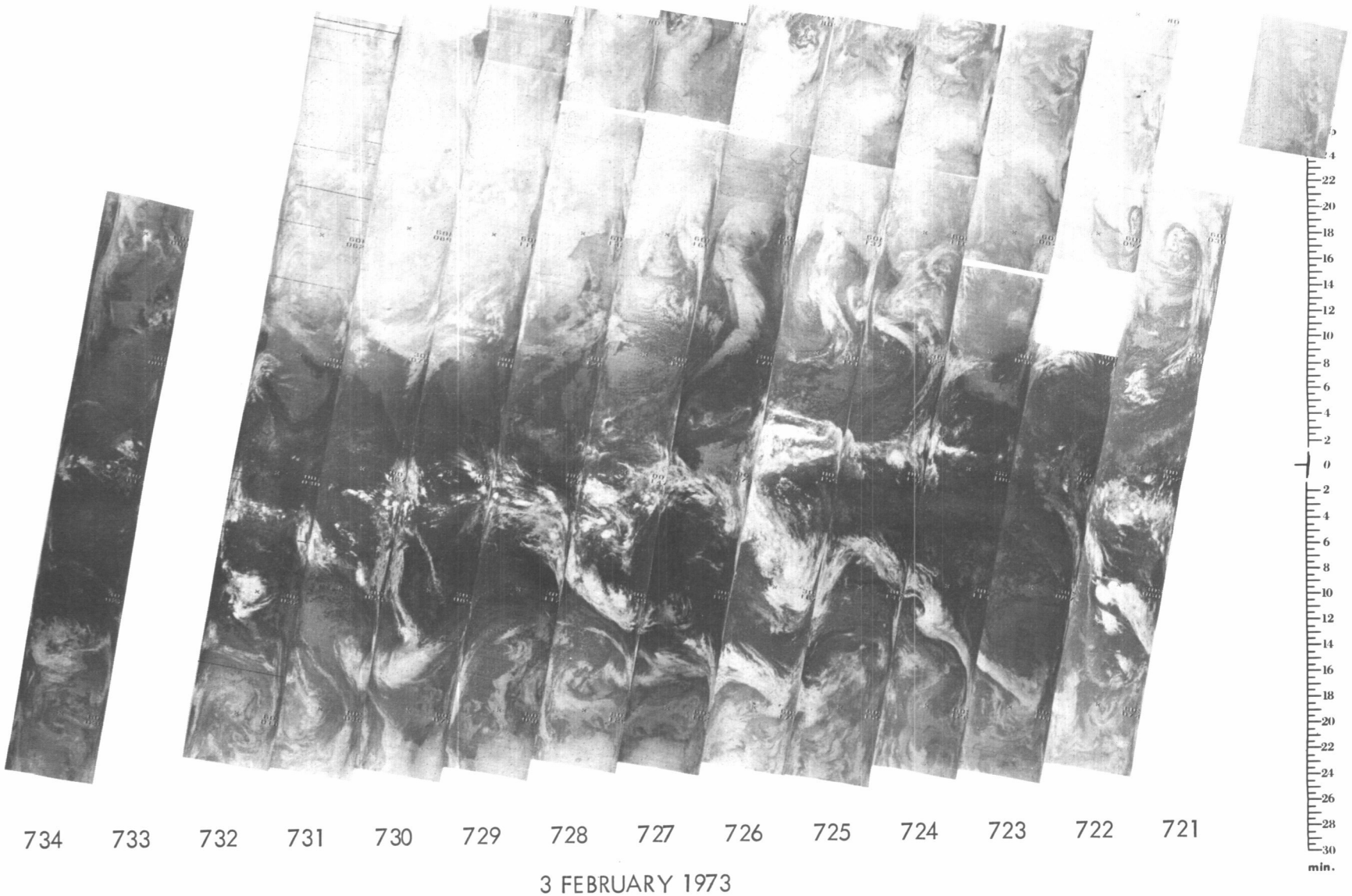

2 FEBRUARY 1973

11.5 μm



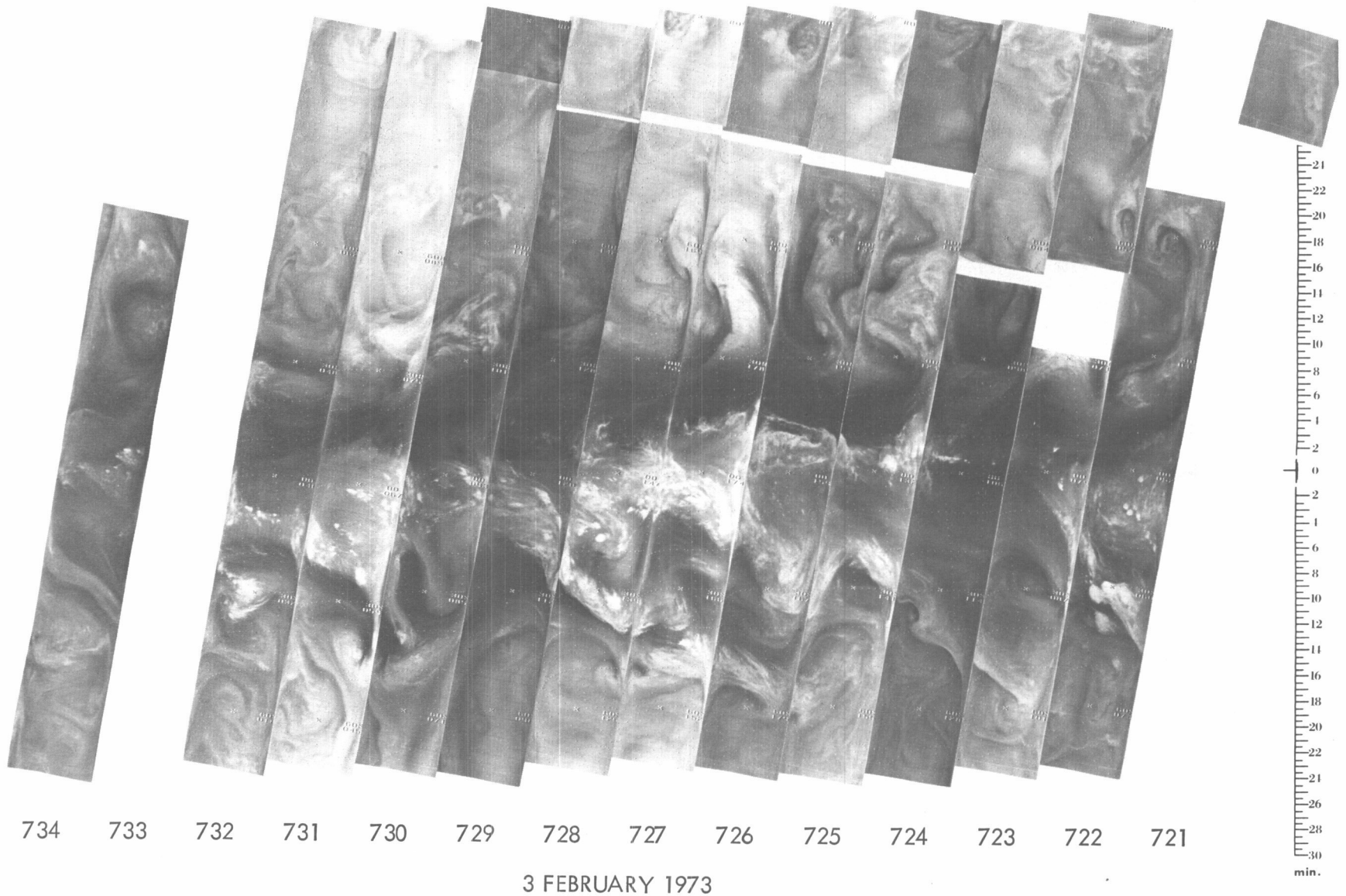

2 FEBRUARY 1973

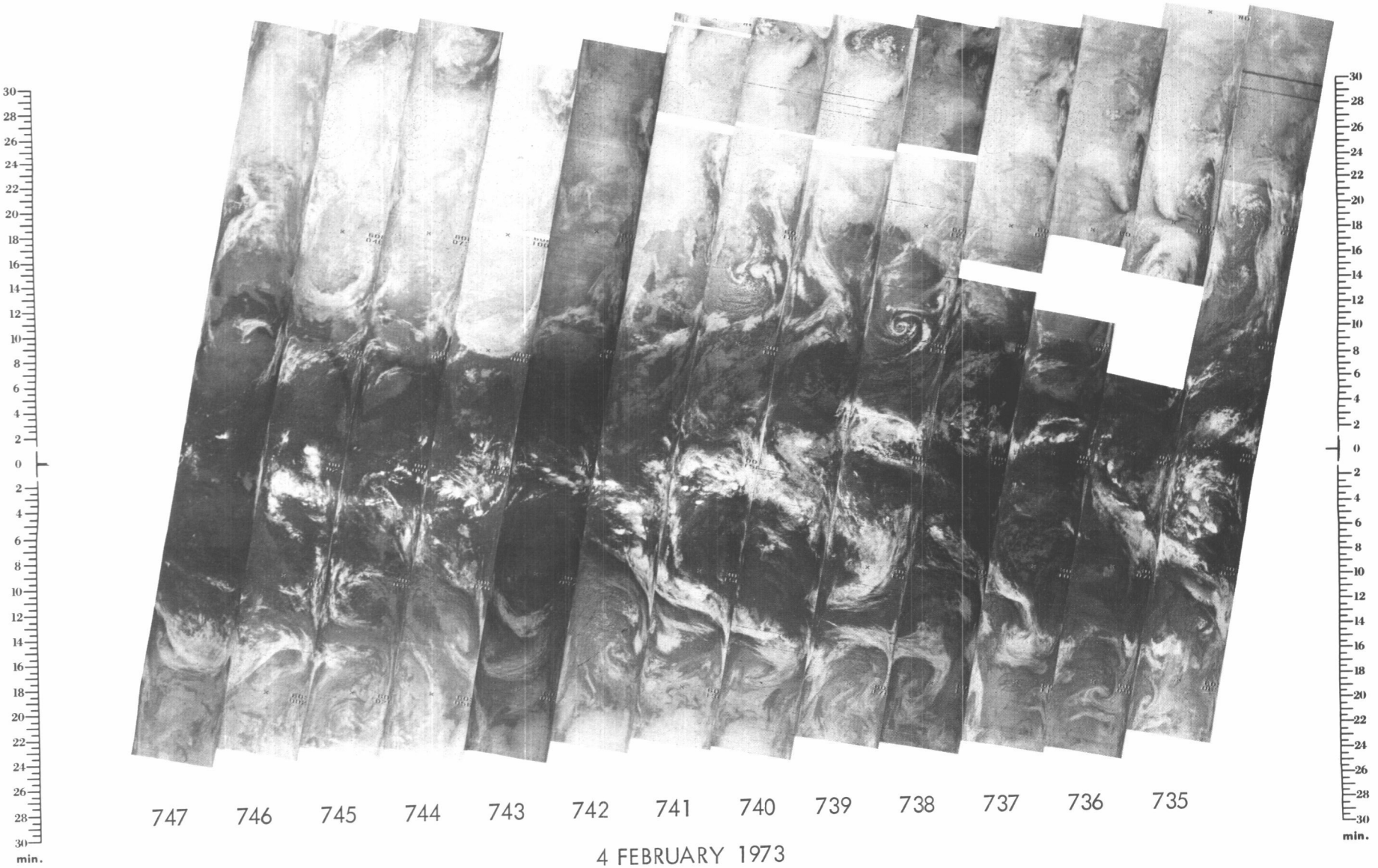
6.7 μm

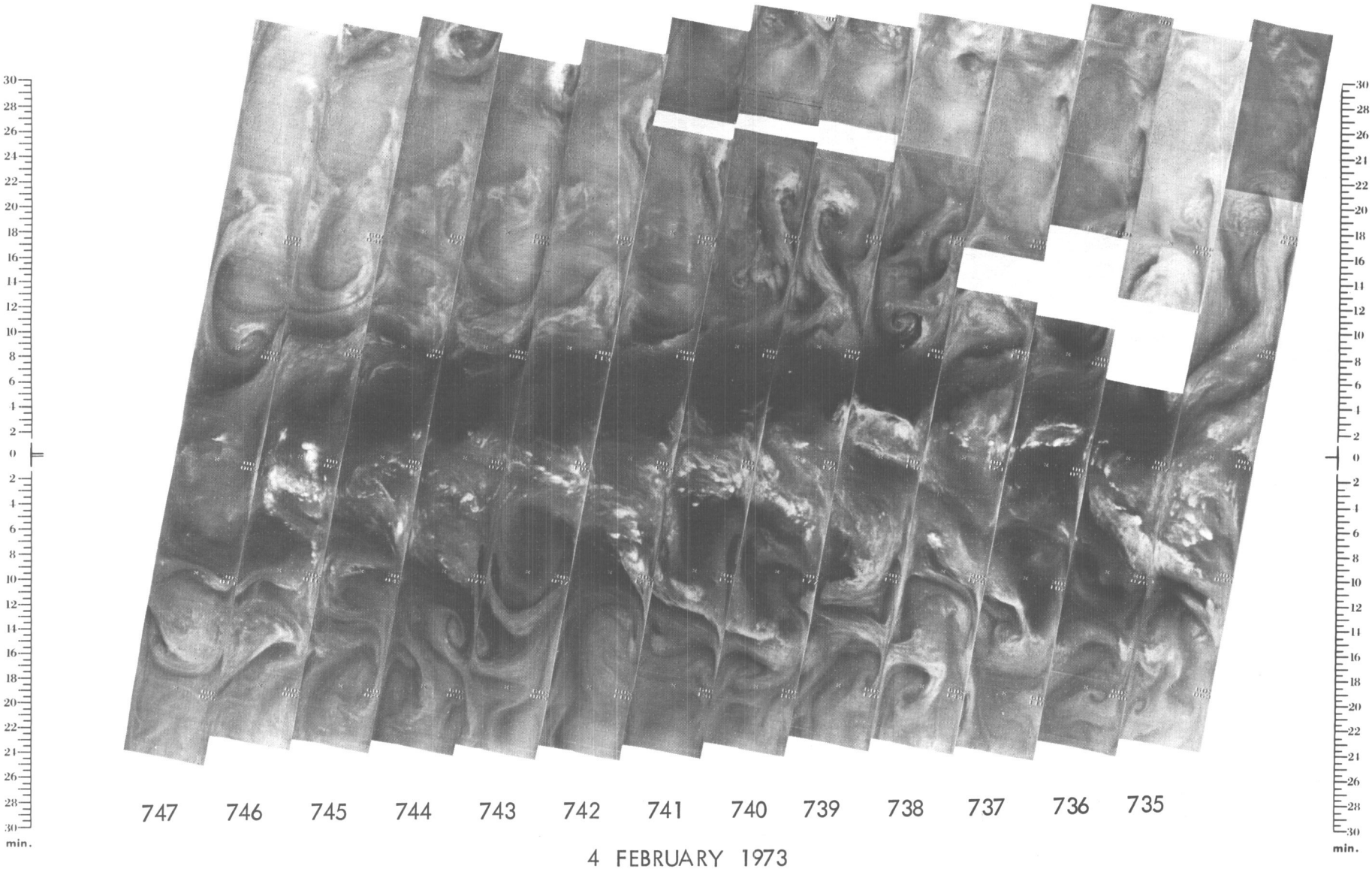


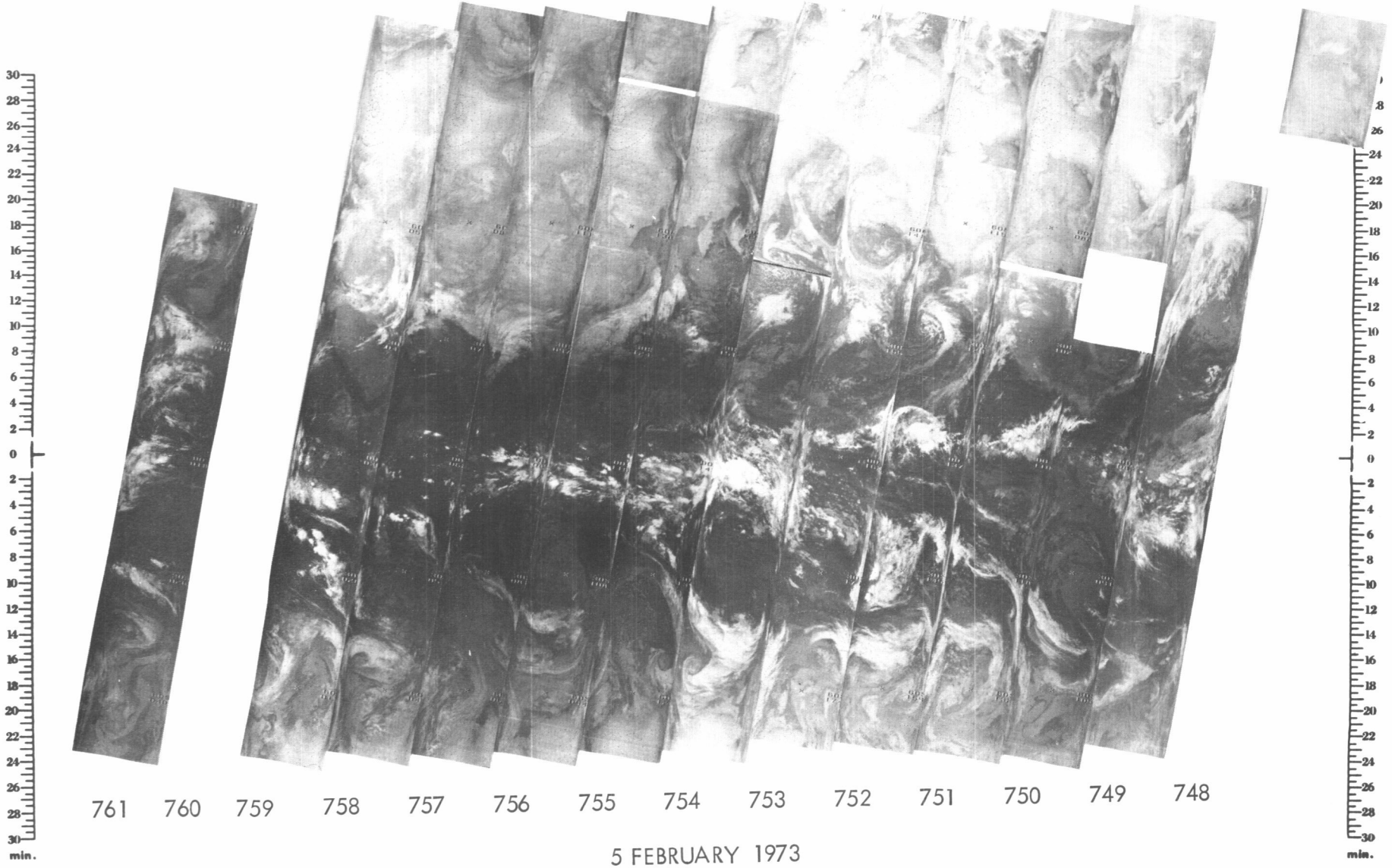

3 FEBRUARY 1973

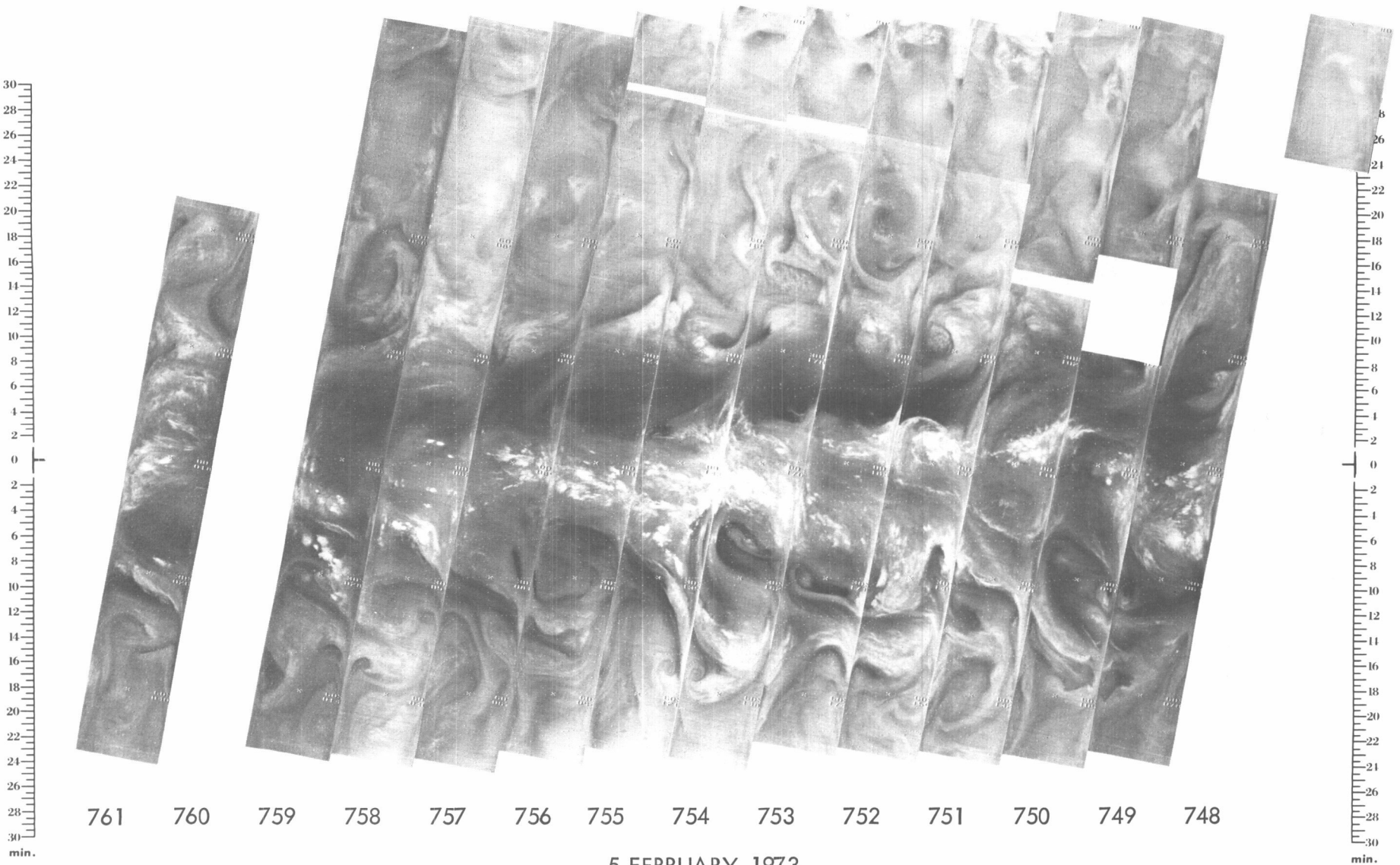
11.5 μm


734
733
732
731
730
729
728
727
726
725
724
723
722
721
3 FEBRUARY 1973
6.7 μm
min.
min.


747
746
745
744
743
742
741
740
739
738
737
736
735
4 FEBRUARY 1973
11.5 μm
min.
min.


747
746
745
744
743
742
741
740
739
738
737
736
735
4 FEBRUARY 1973
6.7 μm
min.
min.


761
760
759
758
757
756
755
754
753
752
751
750
749
748
5 FEBRUARY 1973
11.5 μm
min.
min.



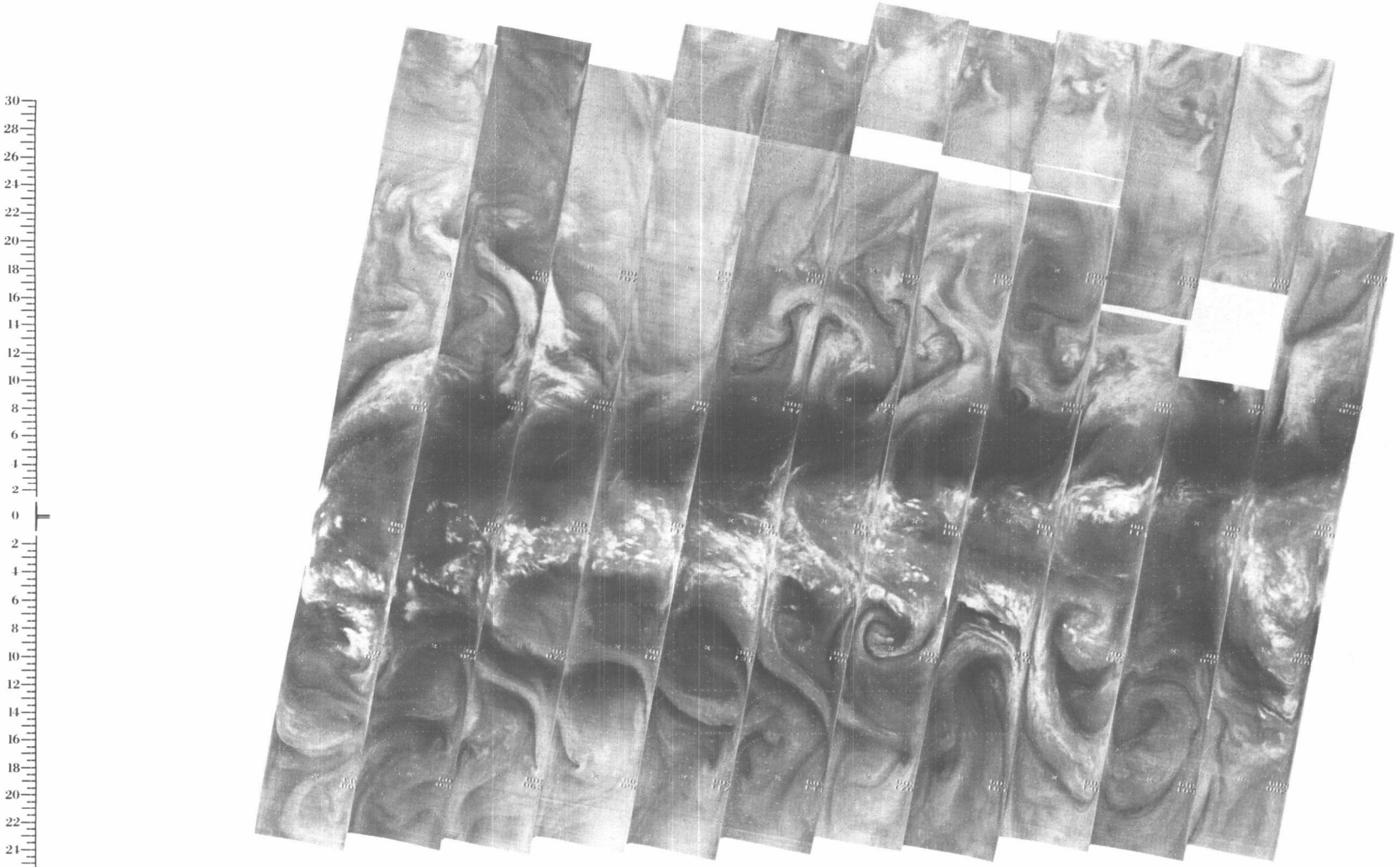

5 FEBRUARY 1973

6.7 μm

762
763
764
765
766
767
768
769
770
771
772
773
774
6 FEBRUARY 1973
11.5 μm
min.

762
763
764
765
766
767
768
769
770
771
772
773
774
6 FEBRUARY 1973
6.7 μm
min.

775
776
777
778
779
780
781
782
783
784
785
786
787
7 FEBRUARY 1973
11.5 μm
min.



787 786 785 784 783 782 781 780 779 778 777 776 775

7 FEBRUARY 1973

6.7 μm

min.

min.

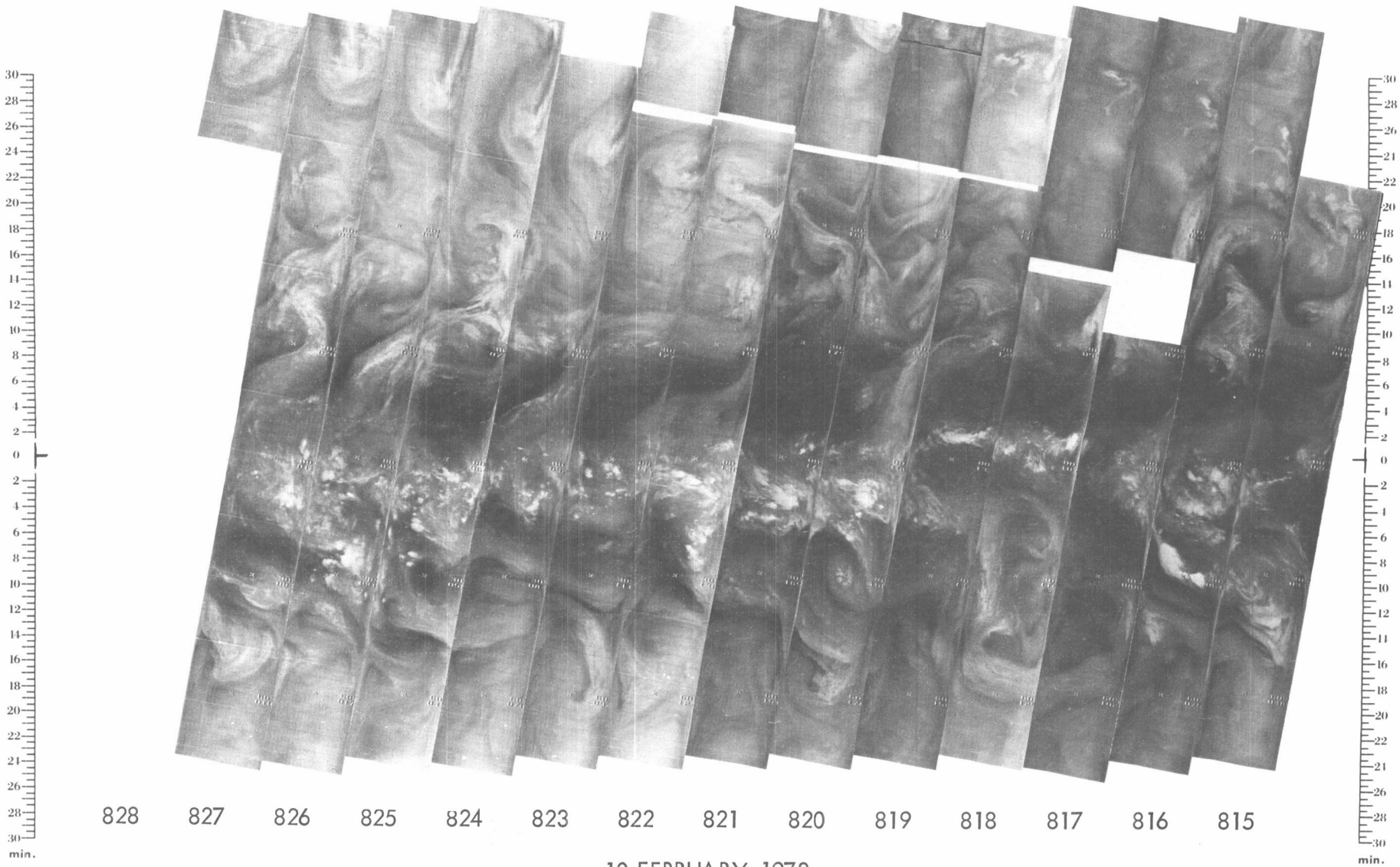
788
789
790
791
792
793
794
795
796
797
798
799
800
801
8 FEBRUARY 1973
11.5 μm
min.

788
789
790
791
792
793
794
795
796
797
798
799
800
801
8 FEBRUARY 1973
6.7 μm
min.

802
803
804
805
806
807
808
809
810
811
812
813
814
9 FEBRUARY 1973
11.5 μm
min.

802
803
804
805
806
807
808
809
810
811
812
813
814
min.
9 FEBRUARY 1973
6.7 μm

815
816
817
818
319
820
821
822
823
824
825
826
827
828
10 FEBRUARY 1973
11.5 μm



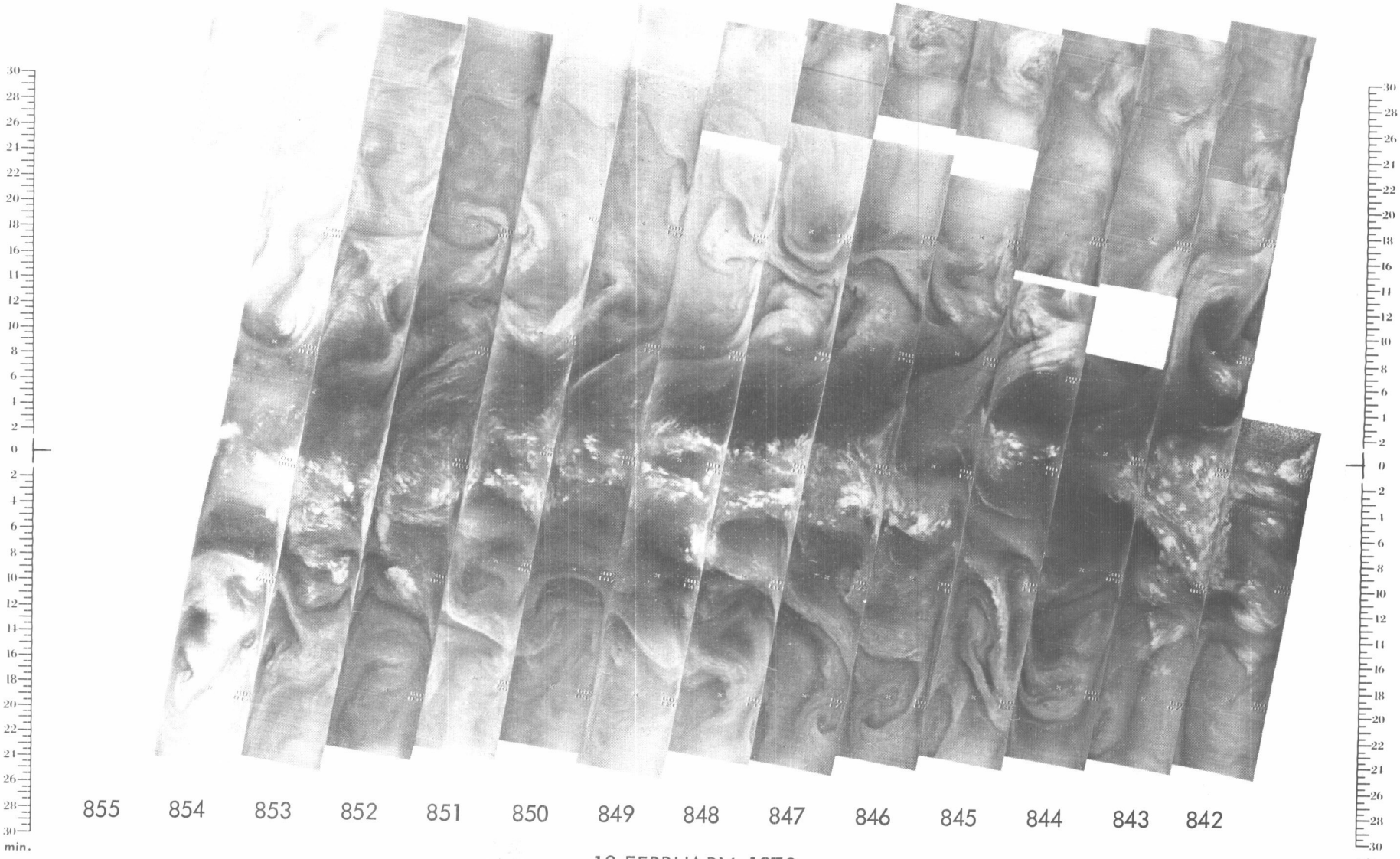

10 FEBRUARY 1973

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
829
830
831
832
833
834
835
836
837
838
839
840
841
11 FEBRUARY 1973
11.5 μm
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

829
830
831
832
833
834
835
836
837
838
839
840
841
11 FEBRUARY 1973
6.7 μm
min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
842
843
844
845
846
847
848
849
850
851
852
853
854
855
12 FEBRUARY 1973
11.5 μm
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



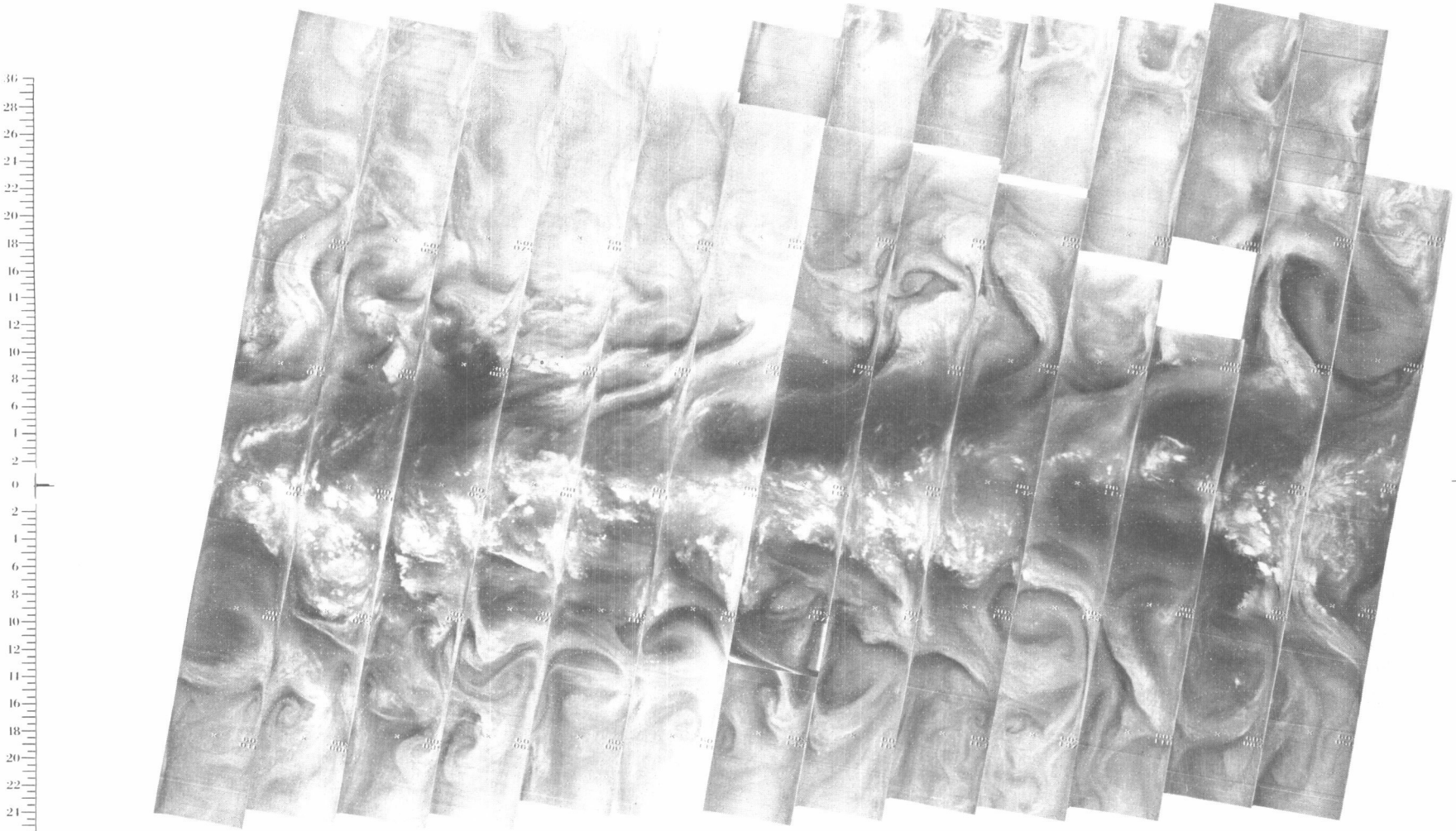

12 FEBRUARY 1973

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
856
857
858
859
860
861
862
863
864
865
866
867
868
13 FEBRUARY 1973
11.5 μm

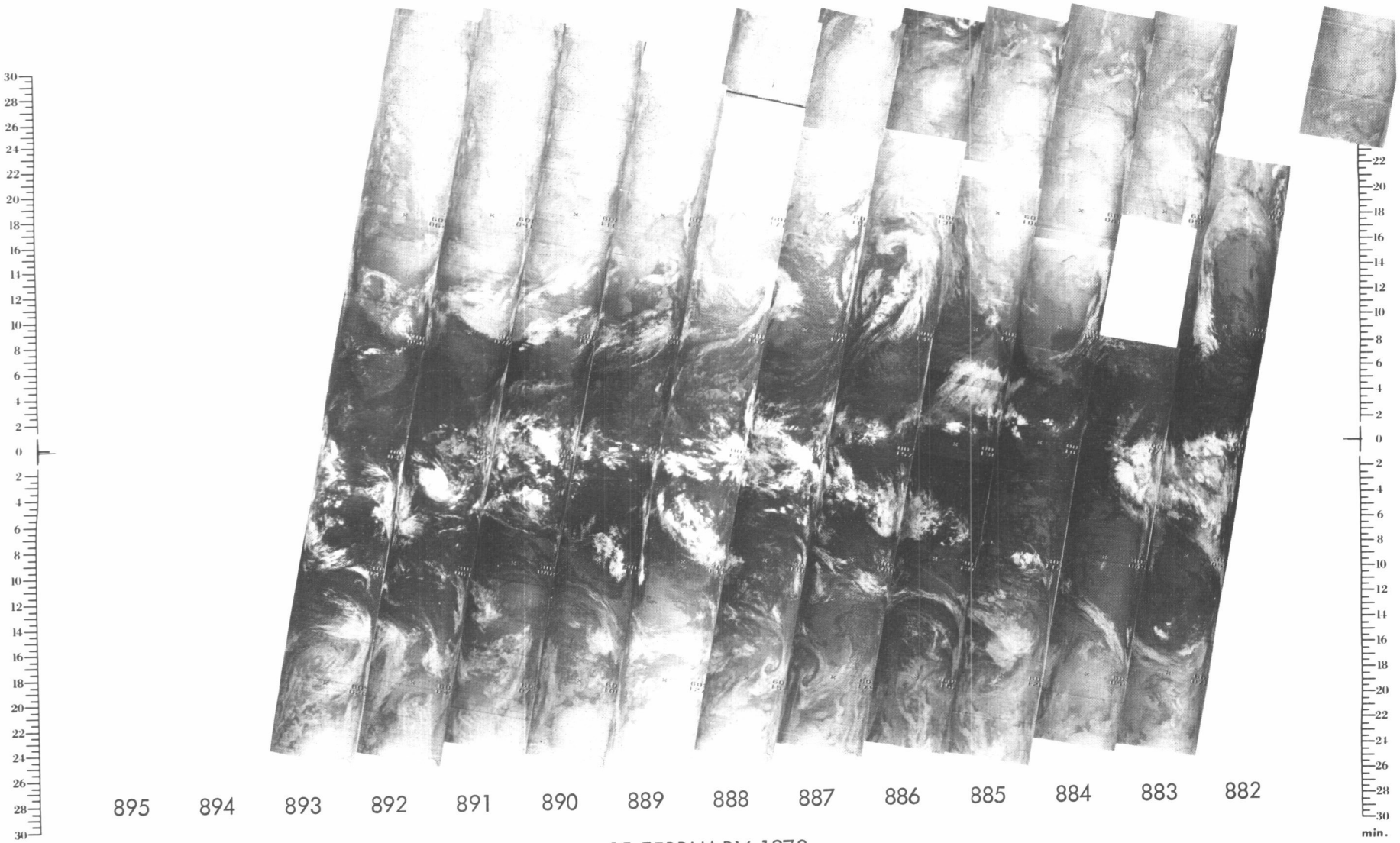
856
857
858
859
860
861
862
863
864
865
866
867
868
13 FEBRUARY 1973
6.7 μm
min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
869 870 871 872 873 874 875 876 877 878 879 880 881
14 FEBRUARY 1973
11.5 μm
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.




14 FEBRUARY 1973

6.7 μm

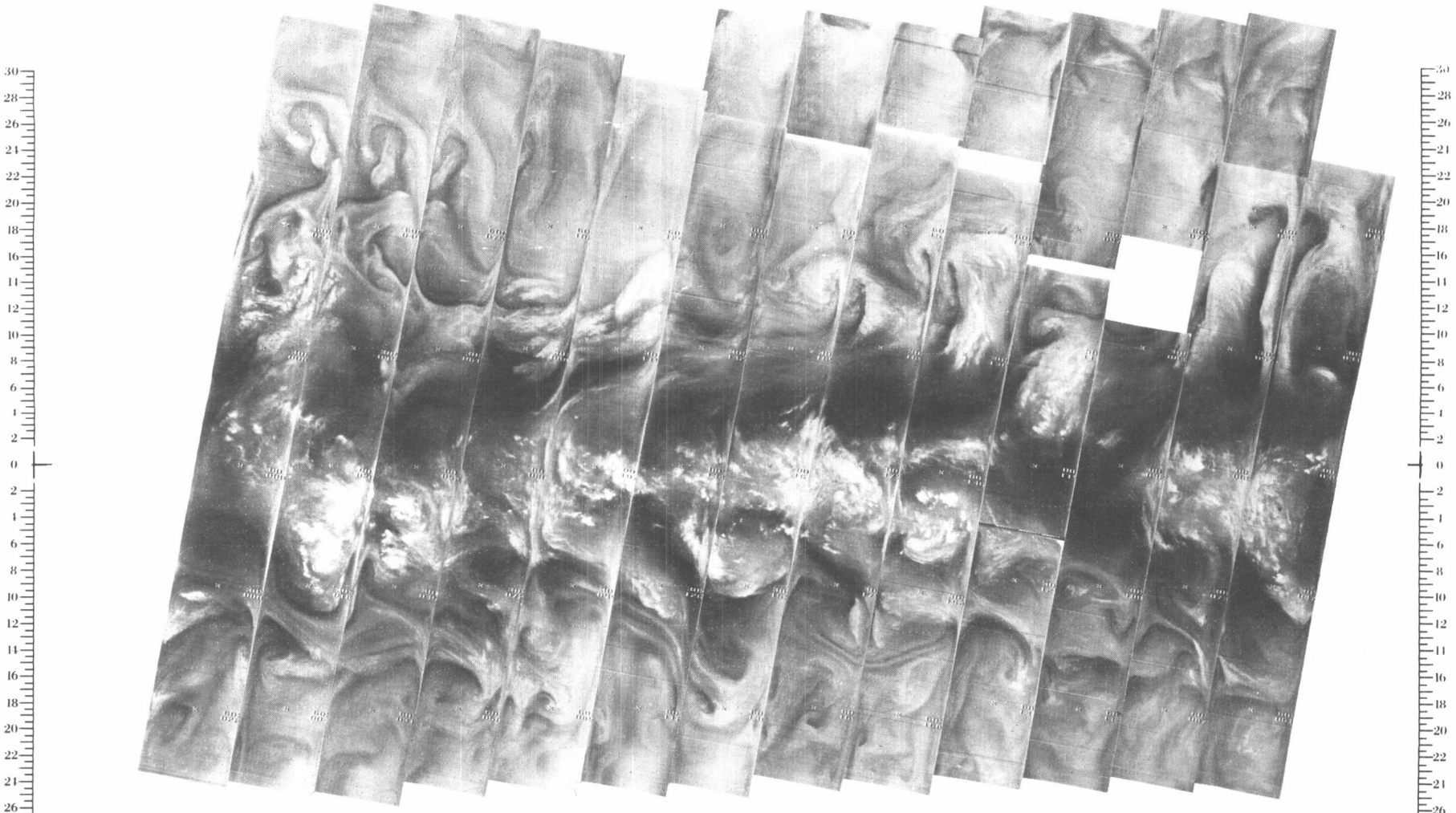



15 FEBRUARY 1973

11.5 μm

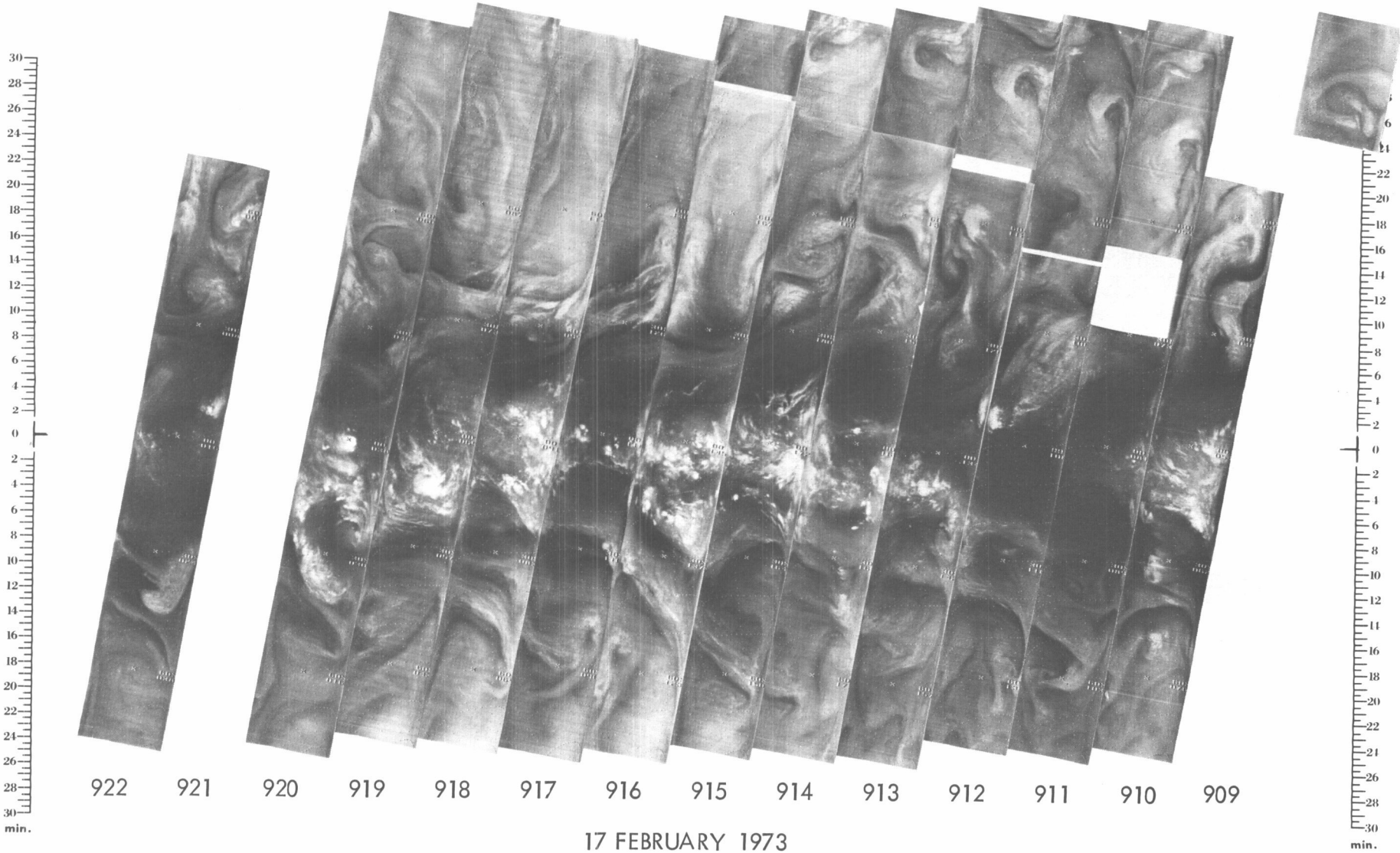
min.
882
883
884
885
886
887
888
889
890
891
892
893
894
895
15 FEBRUARY 1973
6.7 μm
min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
896
897
898
899
900
901
902
903
904
905
906
907
908
16 FEBRUARY 1973
11.5 μm


908
907
906
905
904
903
902
901
900
899
898
897
896
16 FEBRUARY 1973
6.7 μm
min.
min.

17 FEBRUARY 1973

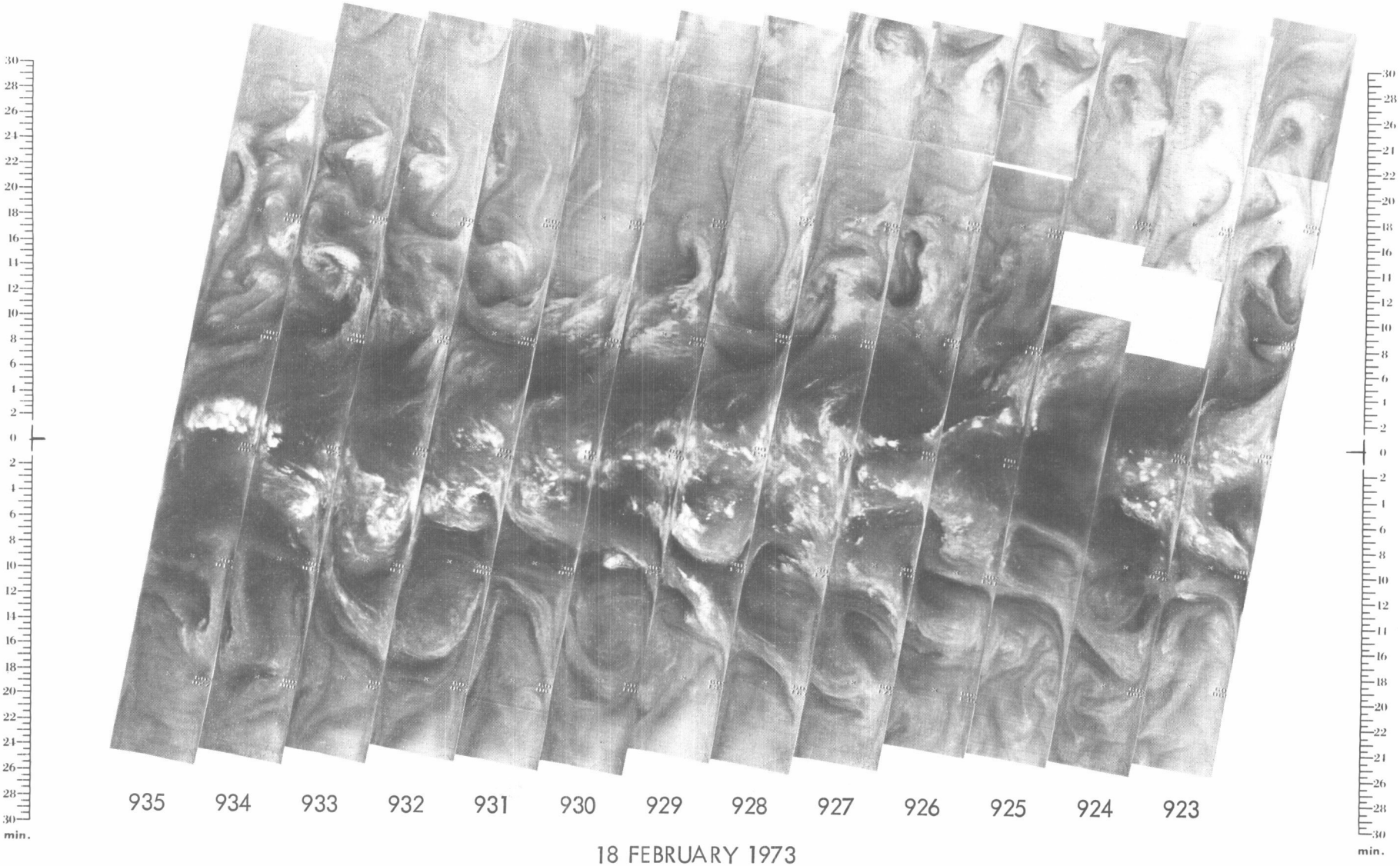
11.5 μm




17 FEBRUARY 1973

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
923 924 925 926 927 928 929 930 931 932 933 934 935
18 FEBRUARY 1973
11.5 μm

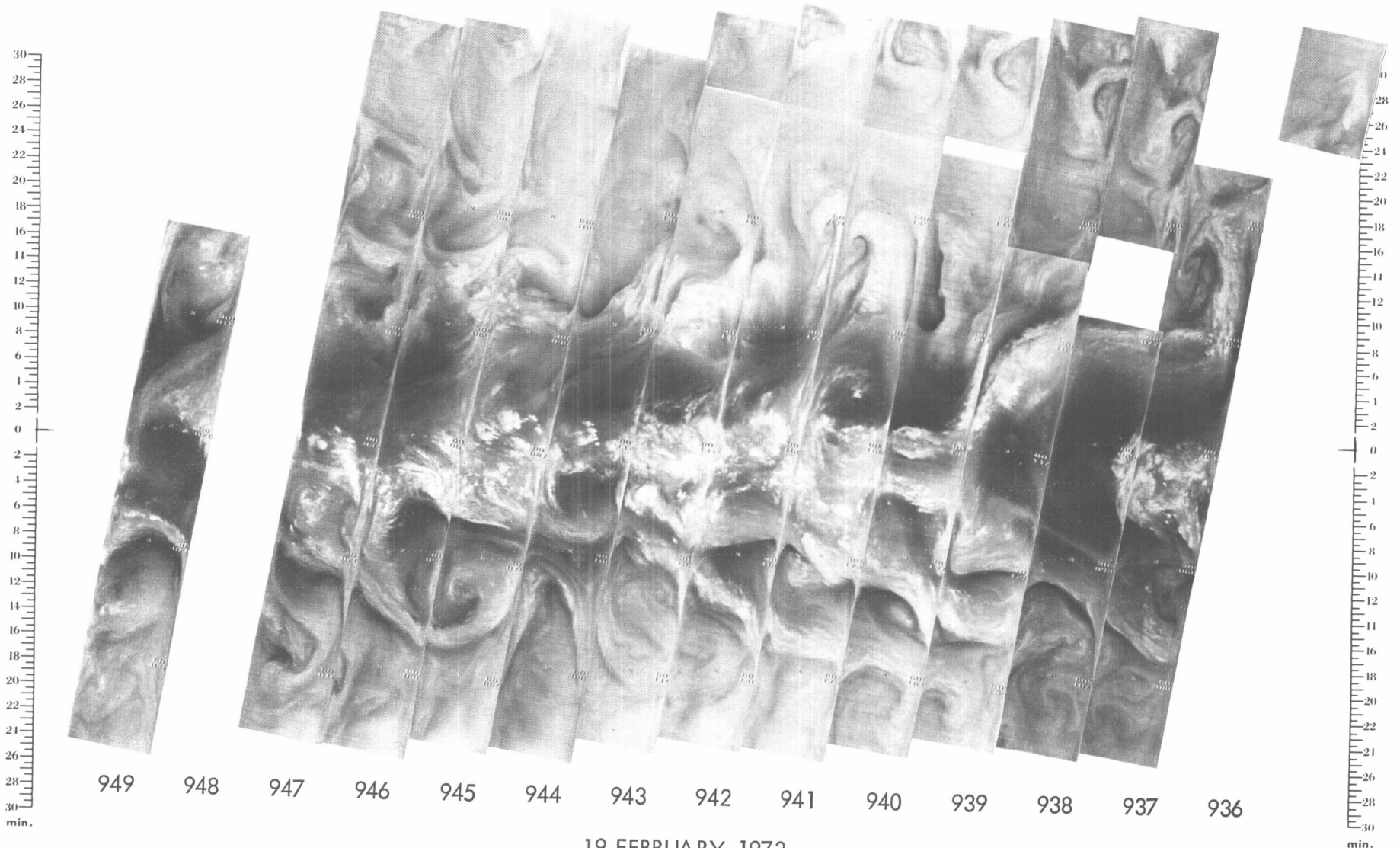



18 FEBRUARY 1973

6.7 μm

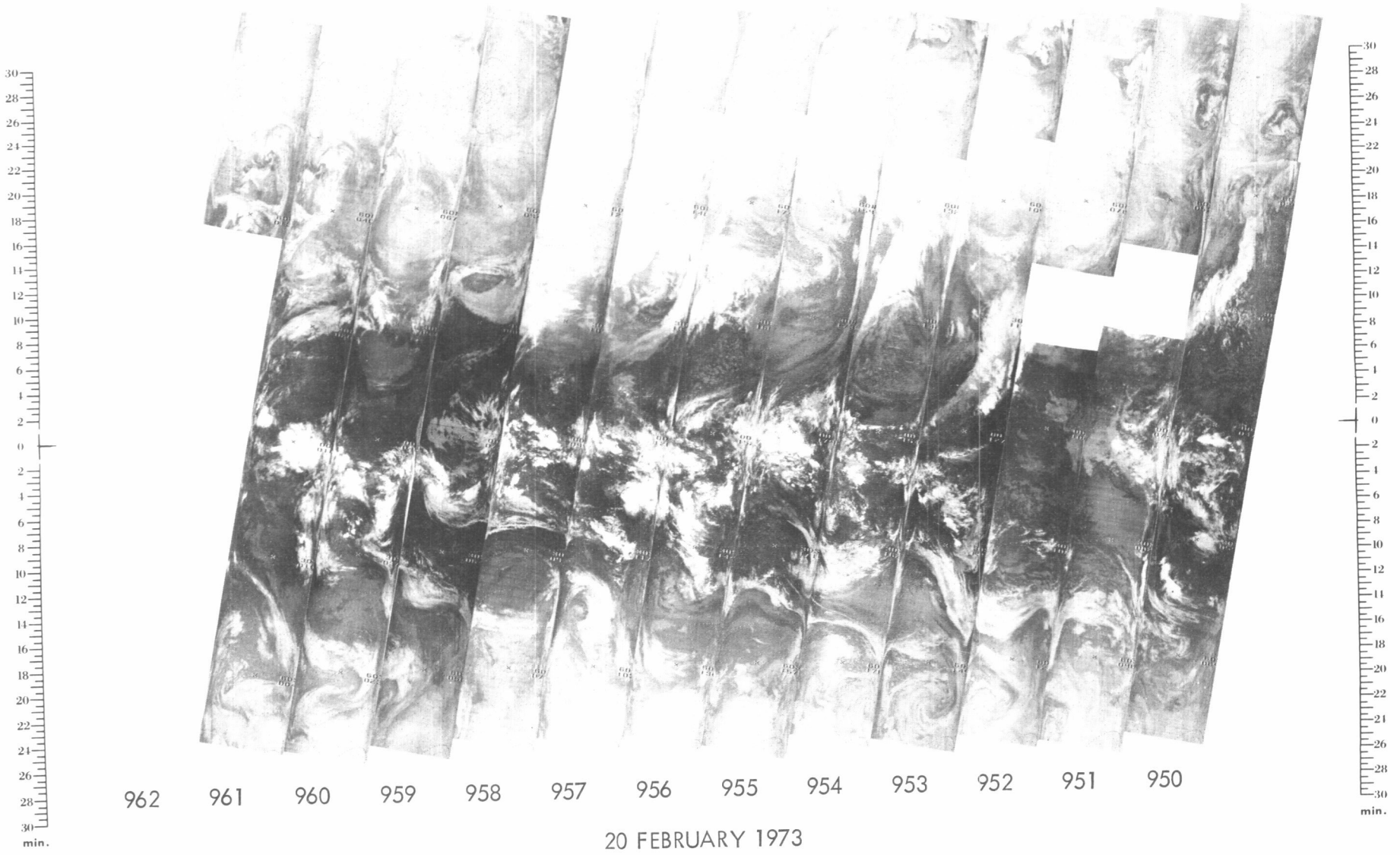
19 FEBRUARY 1973

11.5 μm




19 FEBRUARY 1973

6.7 μm

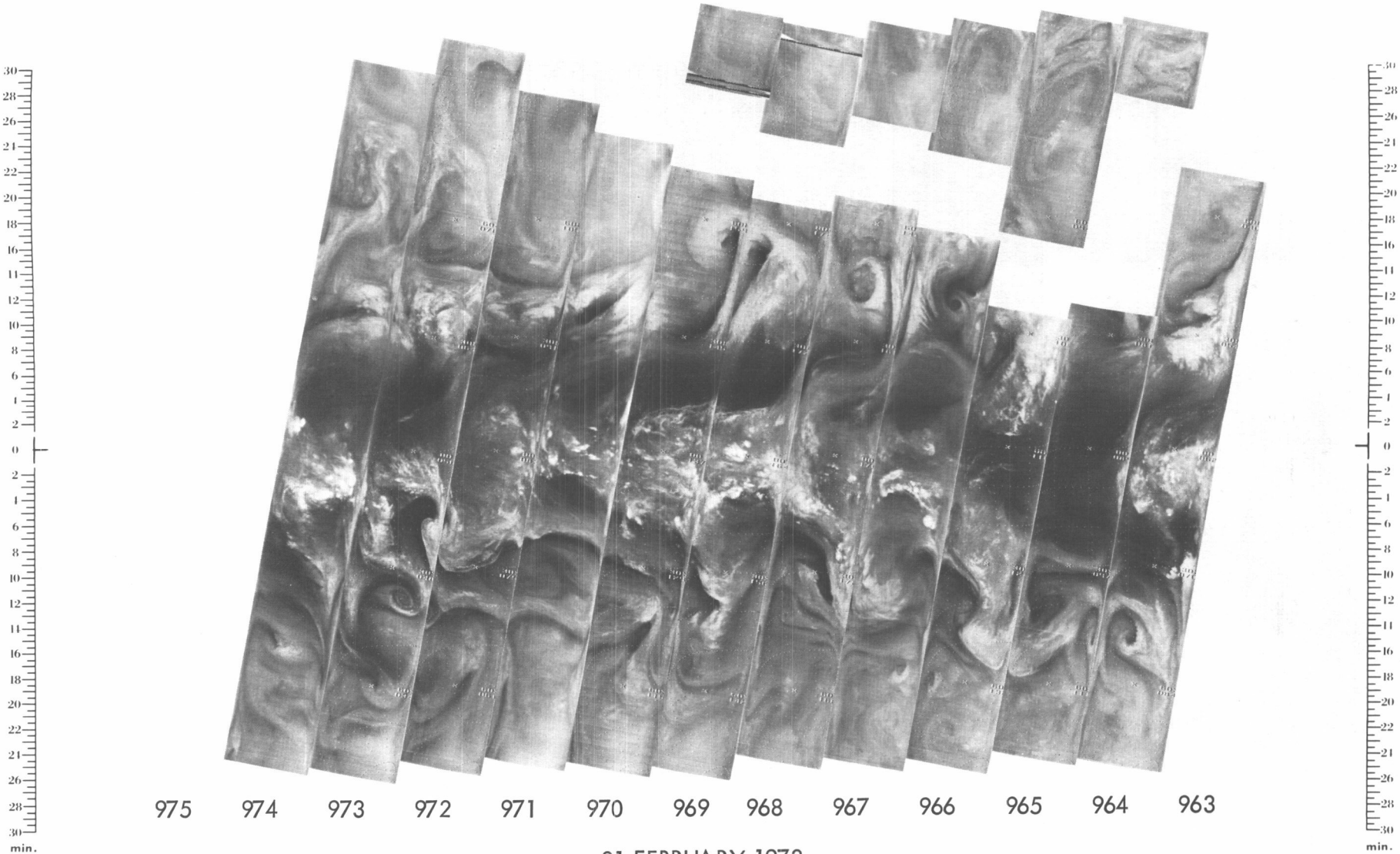



20 FEBRUARY 1973

11.5 μm

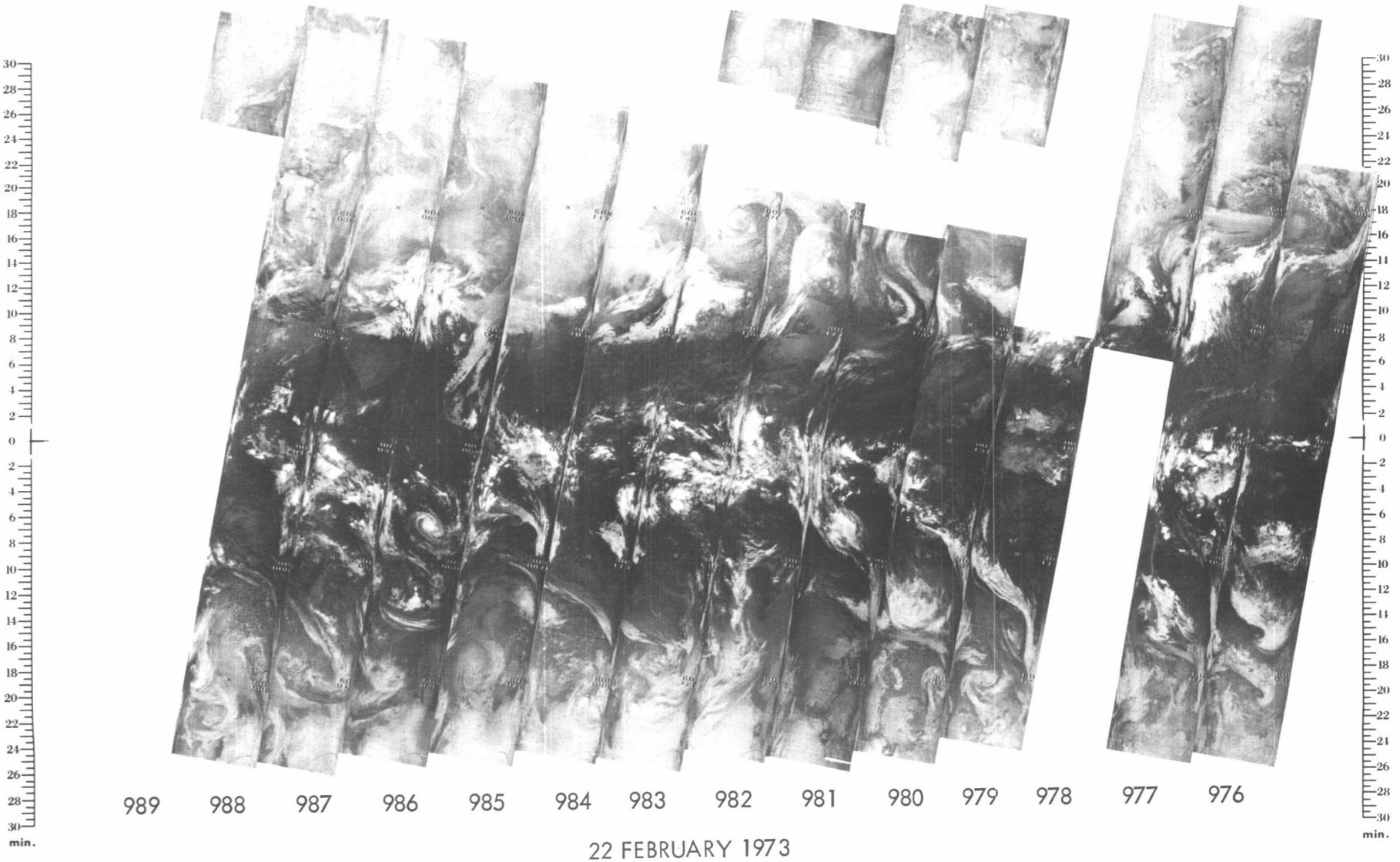
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
950
951
952
953
954
955
956
957
958
959
960
961
962
20 FEBRUARY 1973
6.7 μm
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

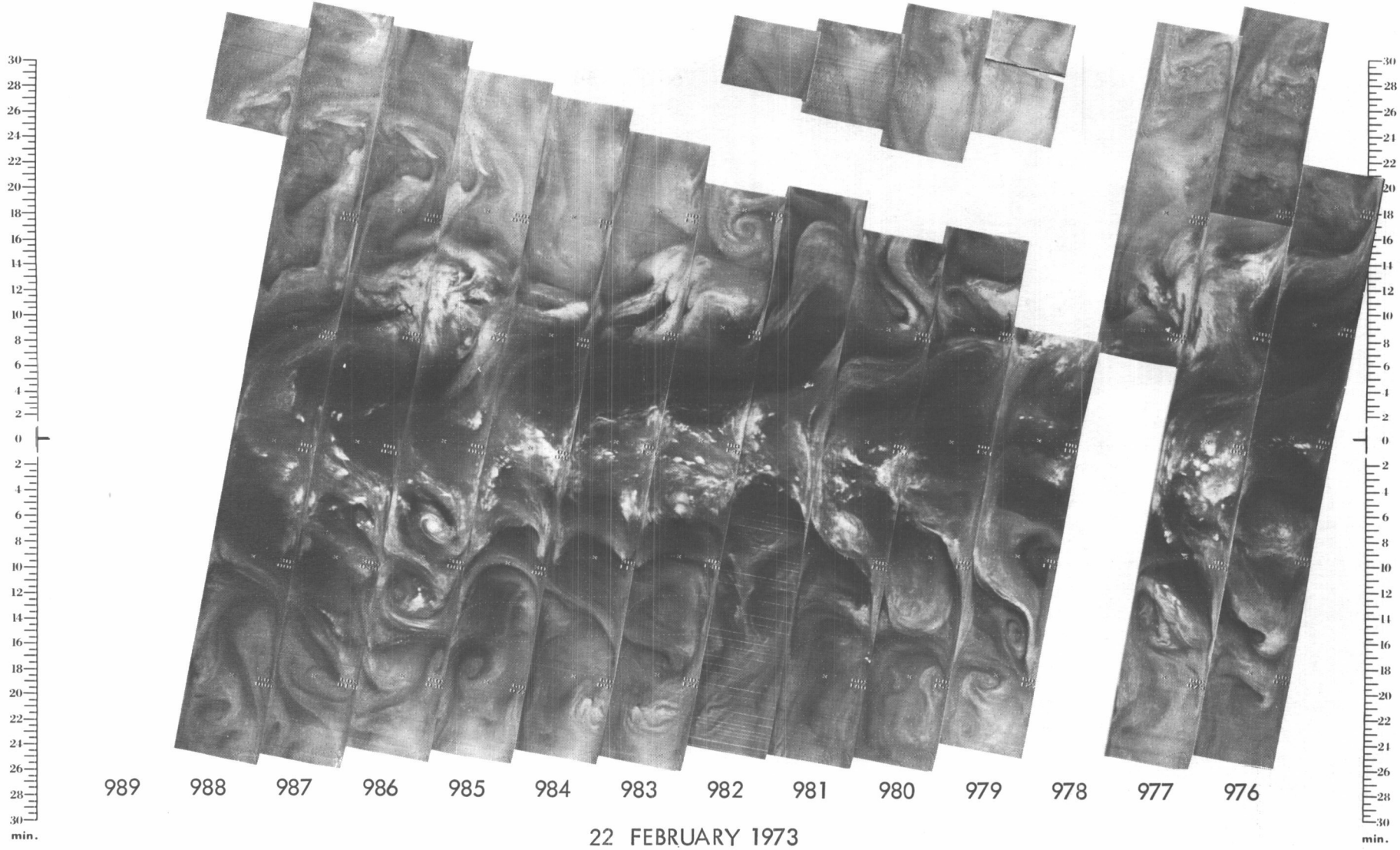
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
963 964 965 966 967 968 969 970 971 972 973 974 975
21 FEBRUARY 1973
11.5 μm




21 FEBRUARY 1973

6.7 μm

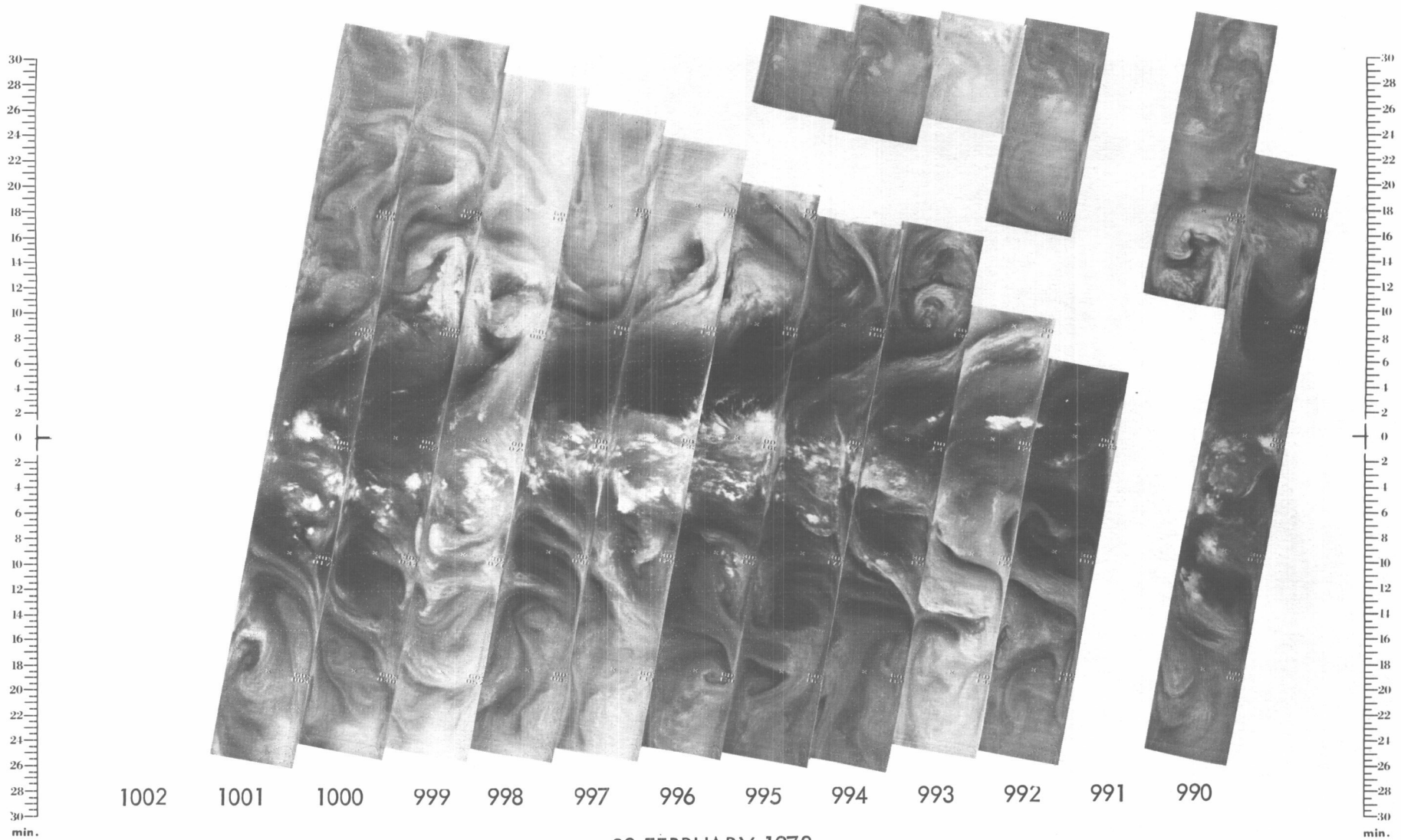

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
989 988 987 986 985 984 983 982 981 980 979 978 977 976
22 FEBRUARY 1973
11.5 μm




22 FEBRUARY 1973

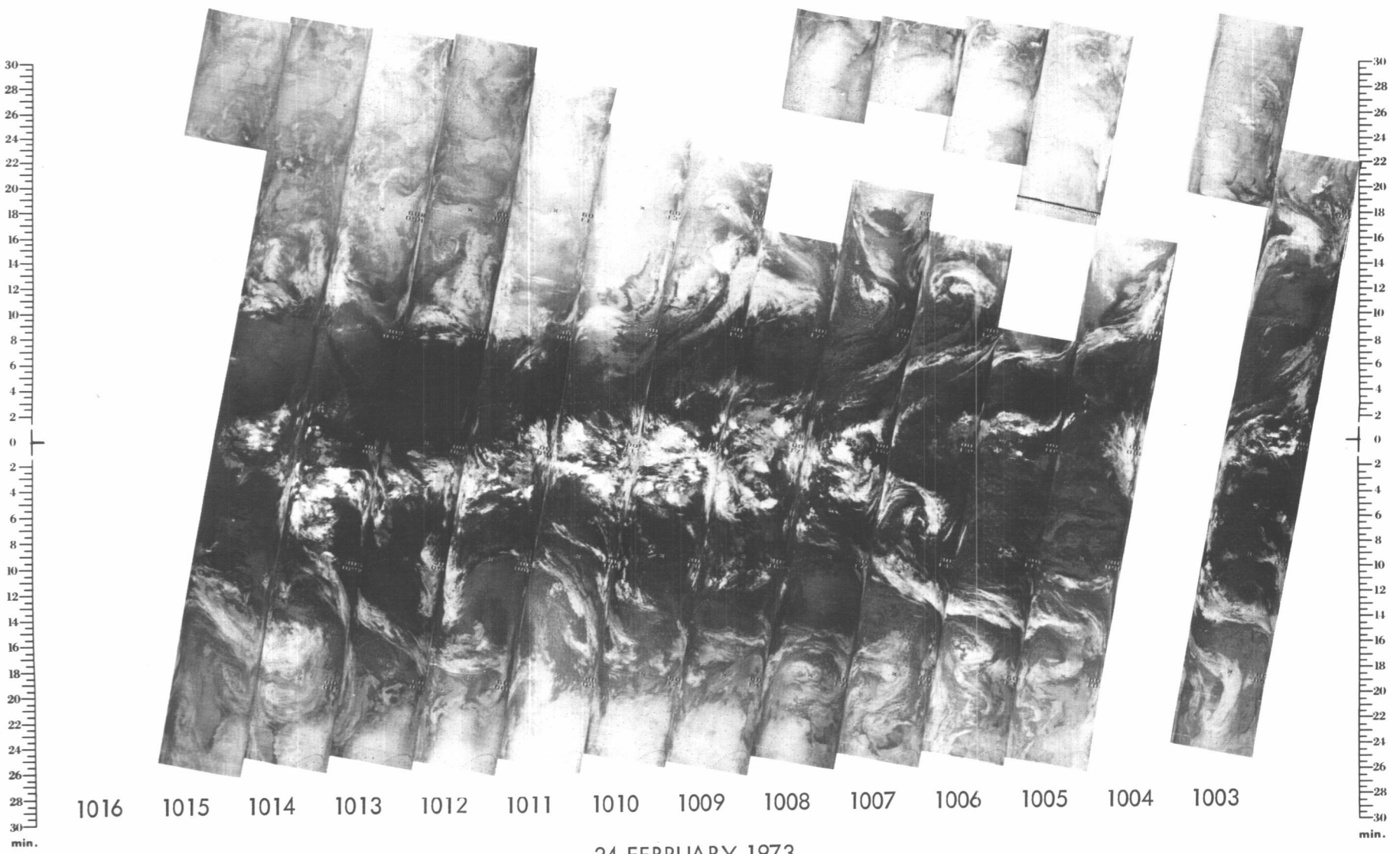
6.7 μm

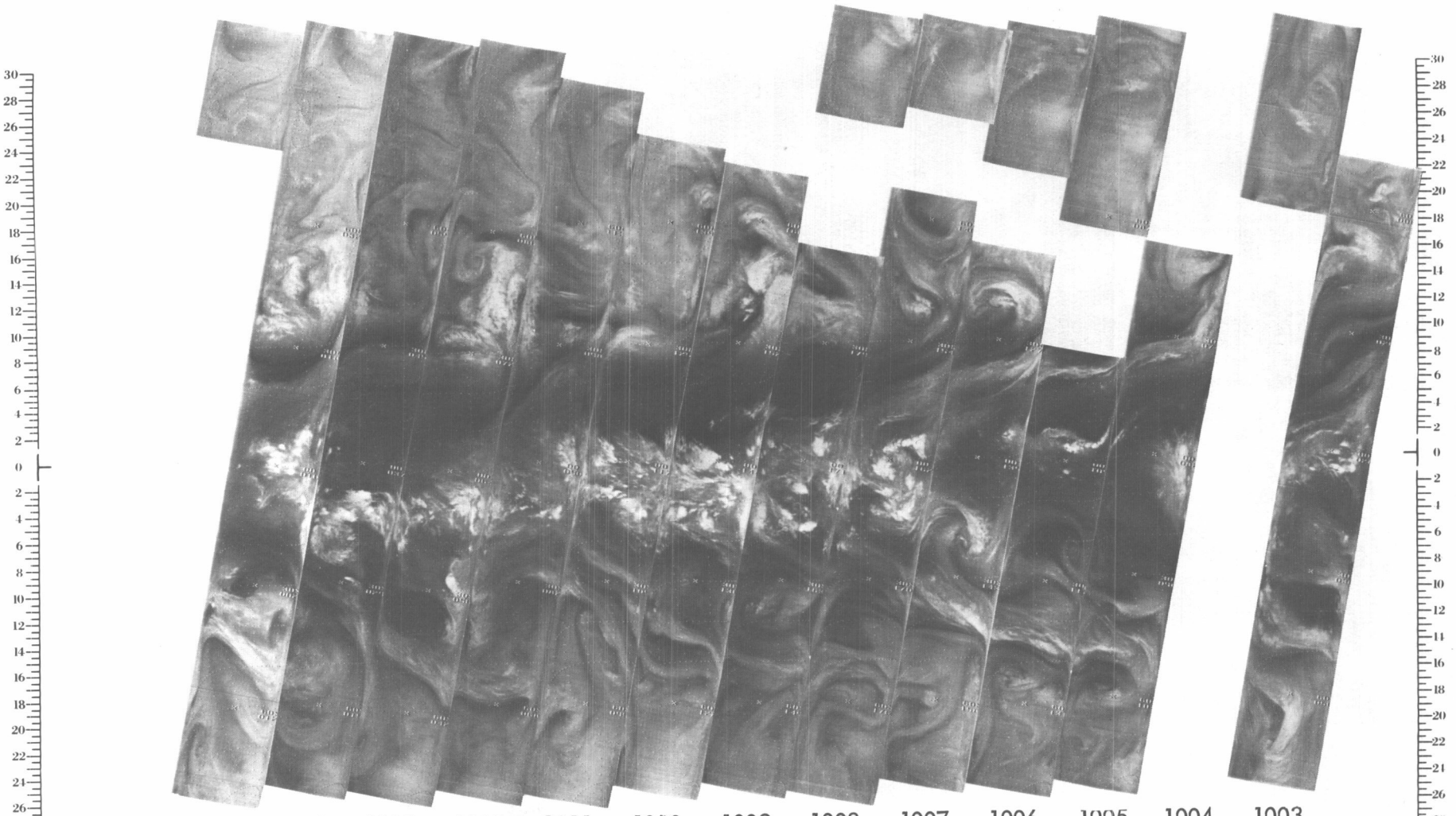
990
991
992
993
994
995
996
997
998
999
1000
1001
1002
23 FEBRUARY 1973
11.5 μm
min.




23 FEBRUARY 1973

6.7 μm

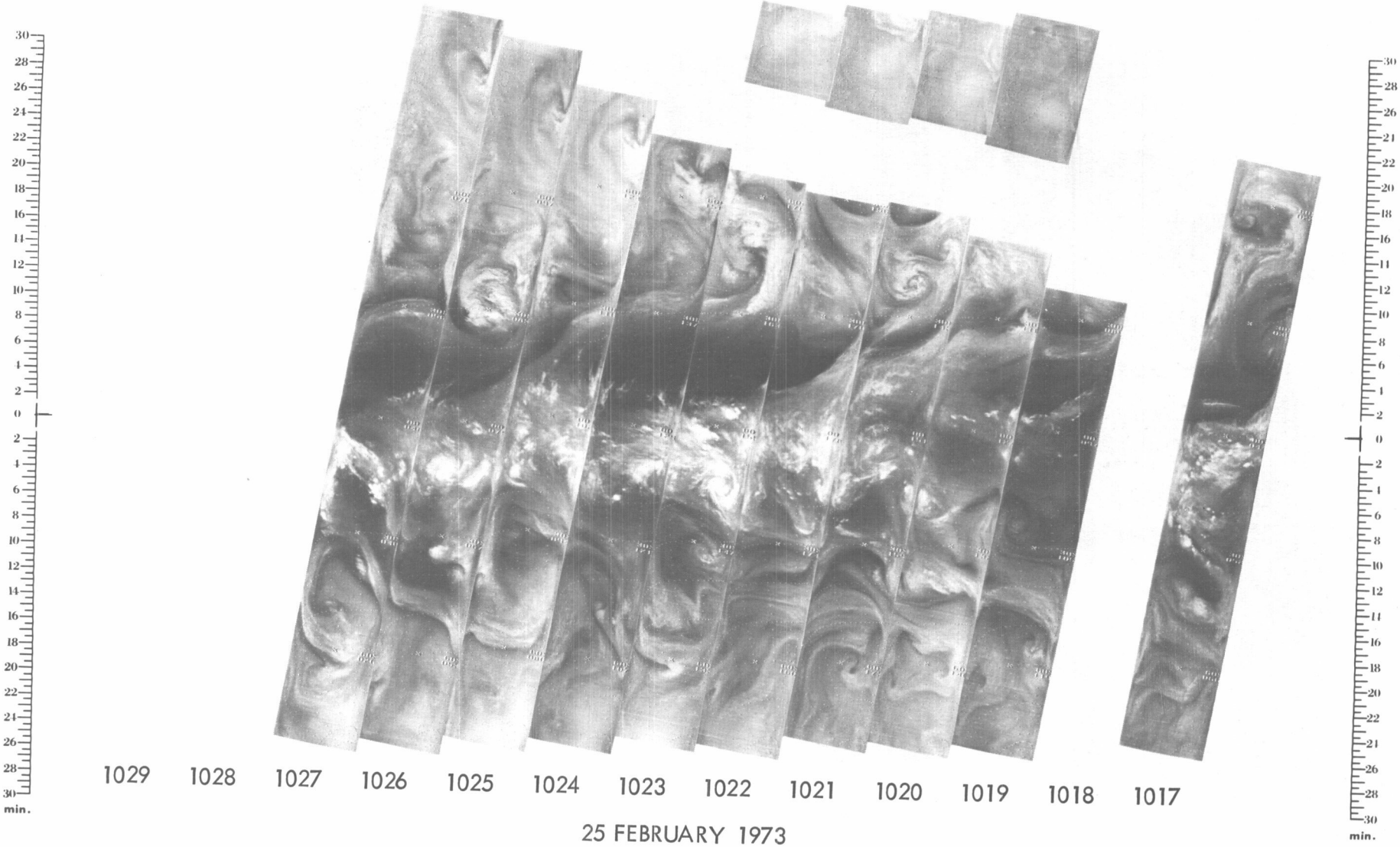

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003
24 FEBRUARY 1973
11.5 μm




24 FEBRUARY 1973

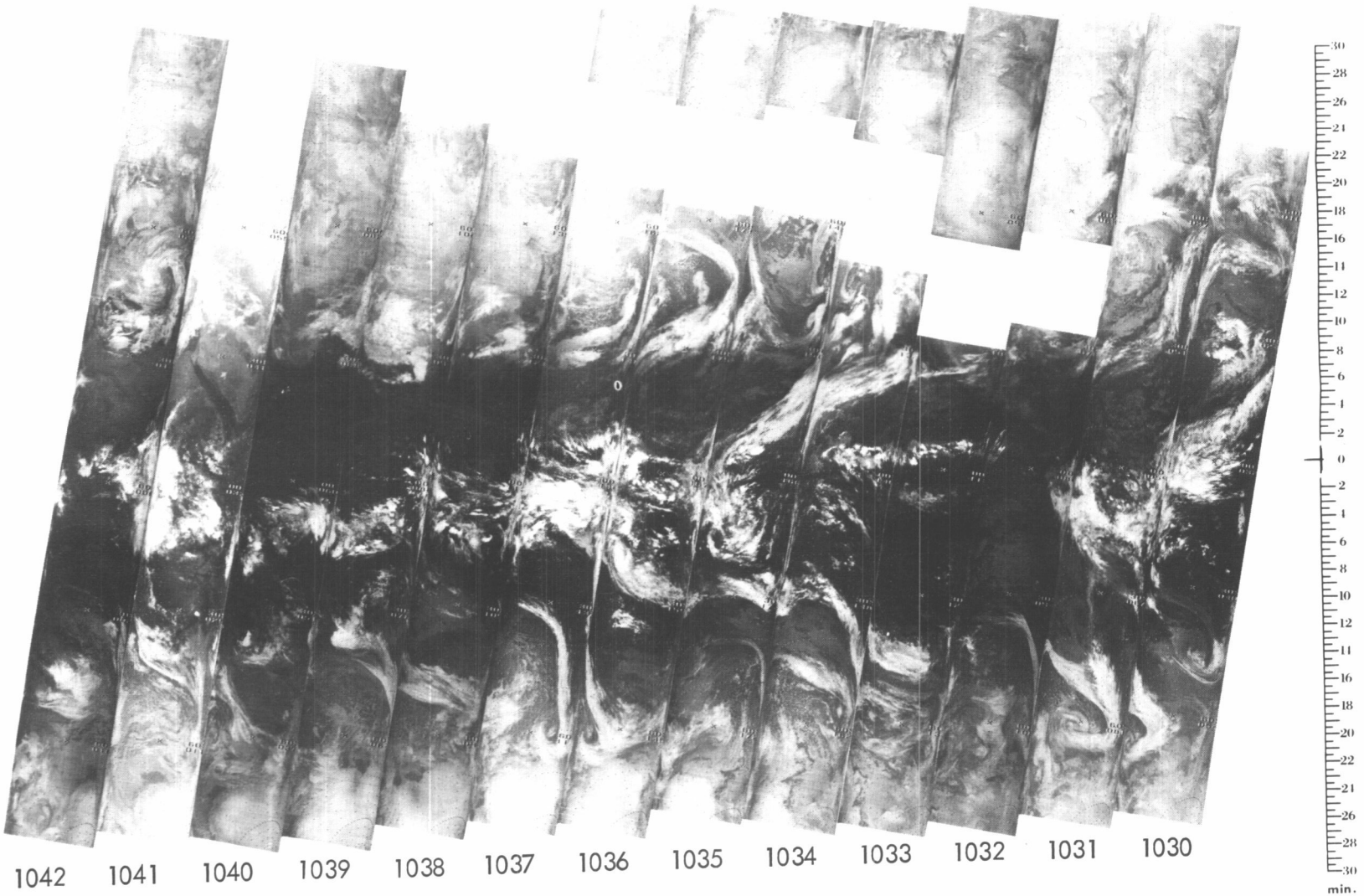
6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1017
1018
1019
1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
25 FEBRUARY 1973
11.5 μm
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



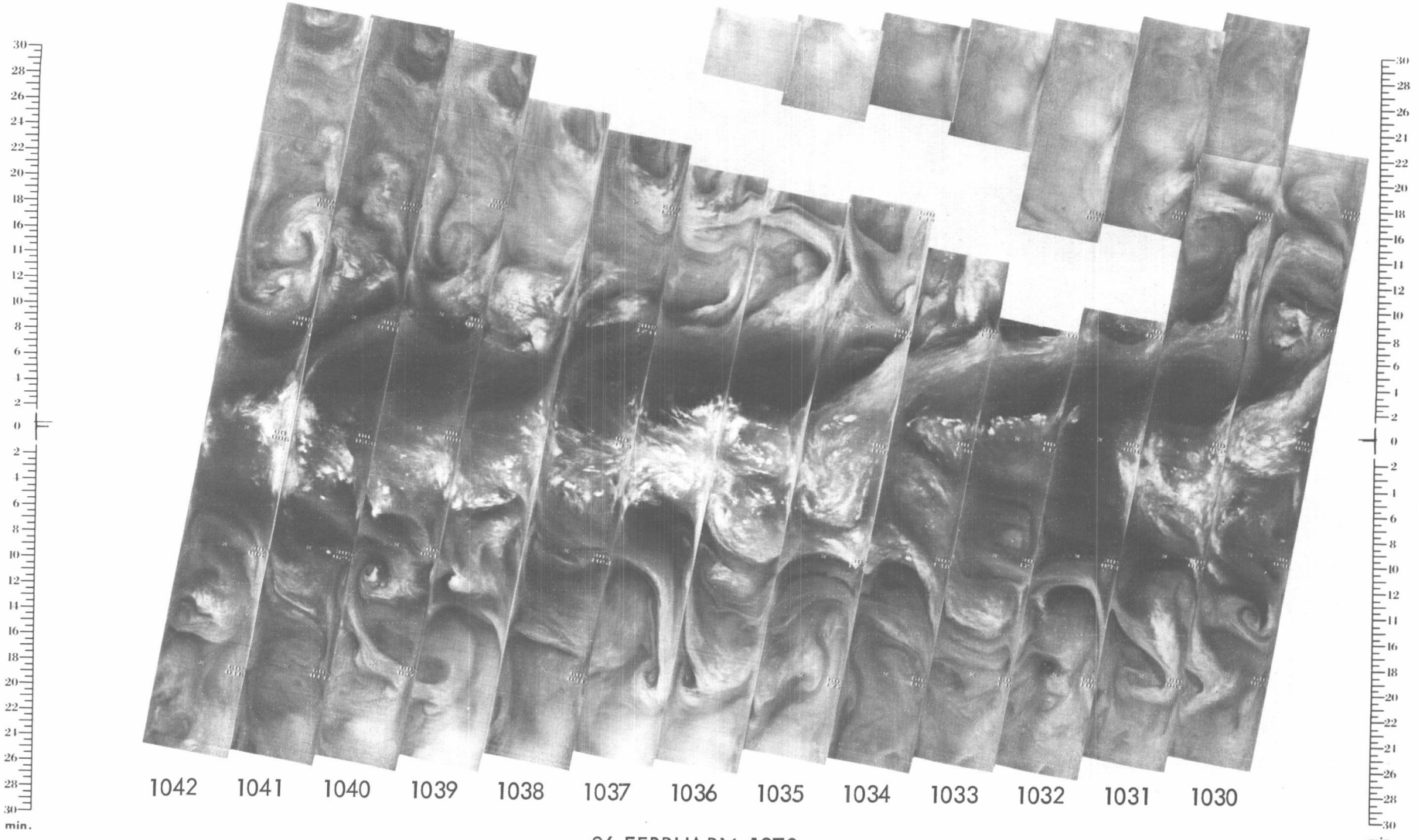

25 FEBRUARY 1973

6.7 μm



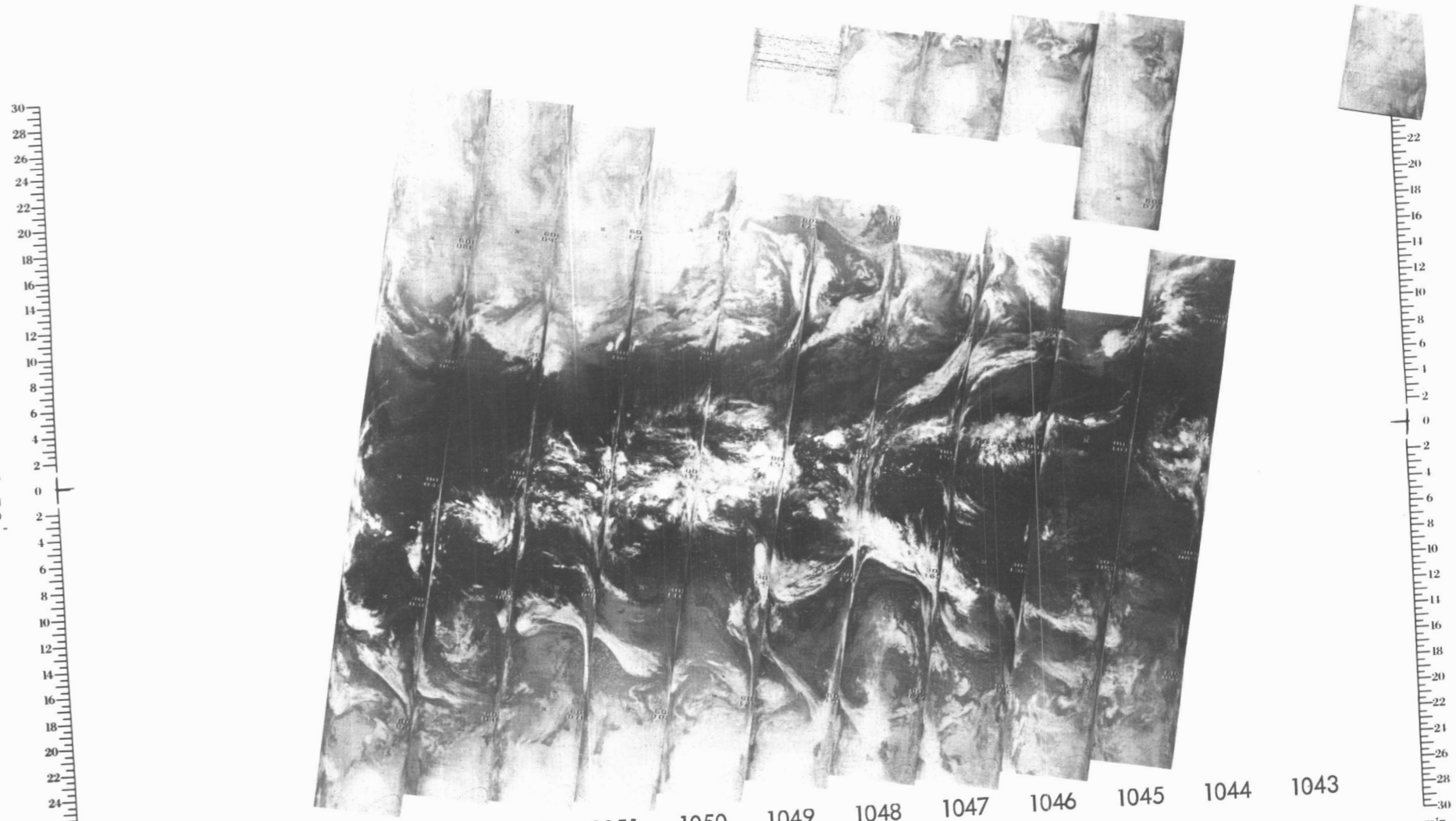

26 FEBRUARY 1973

11.5 μm



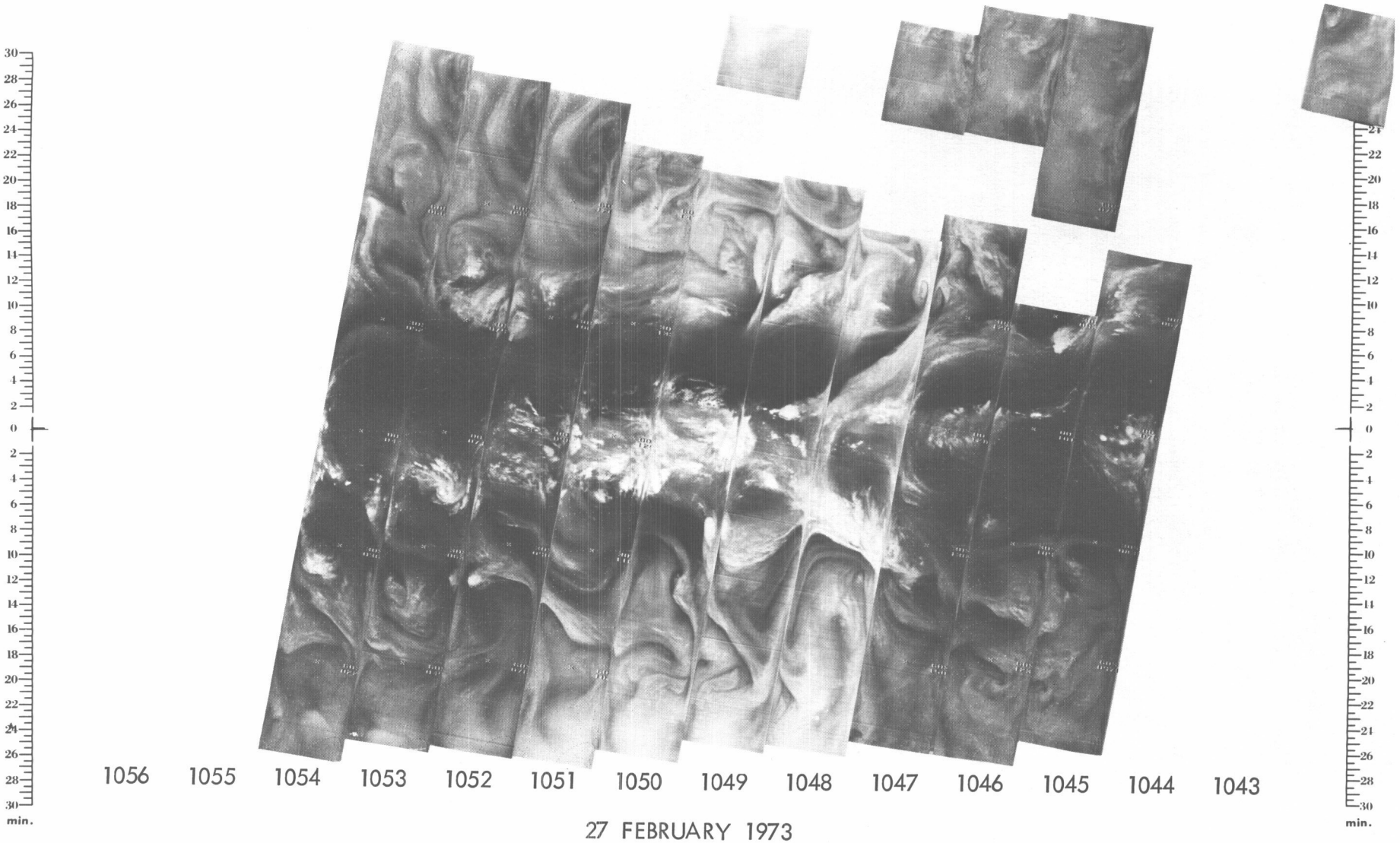

26 FEBRUARY 1973

6.7 μm




27 FEBRUARY 1973

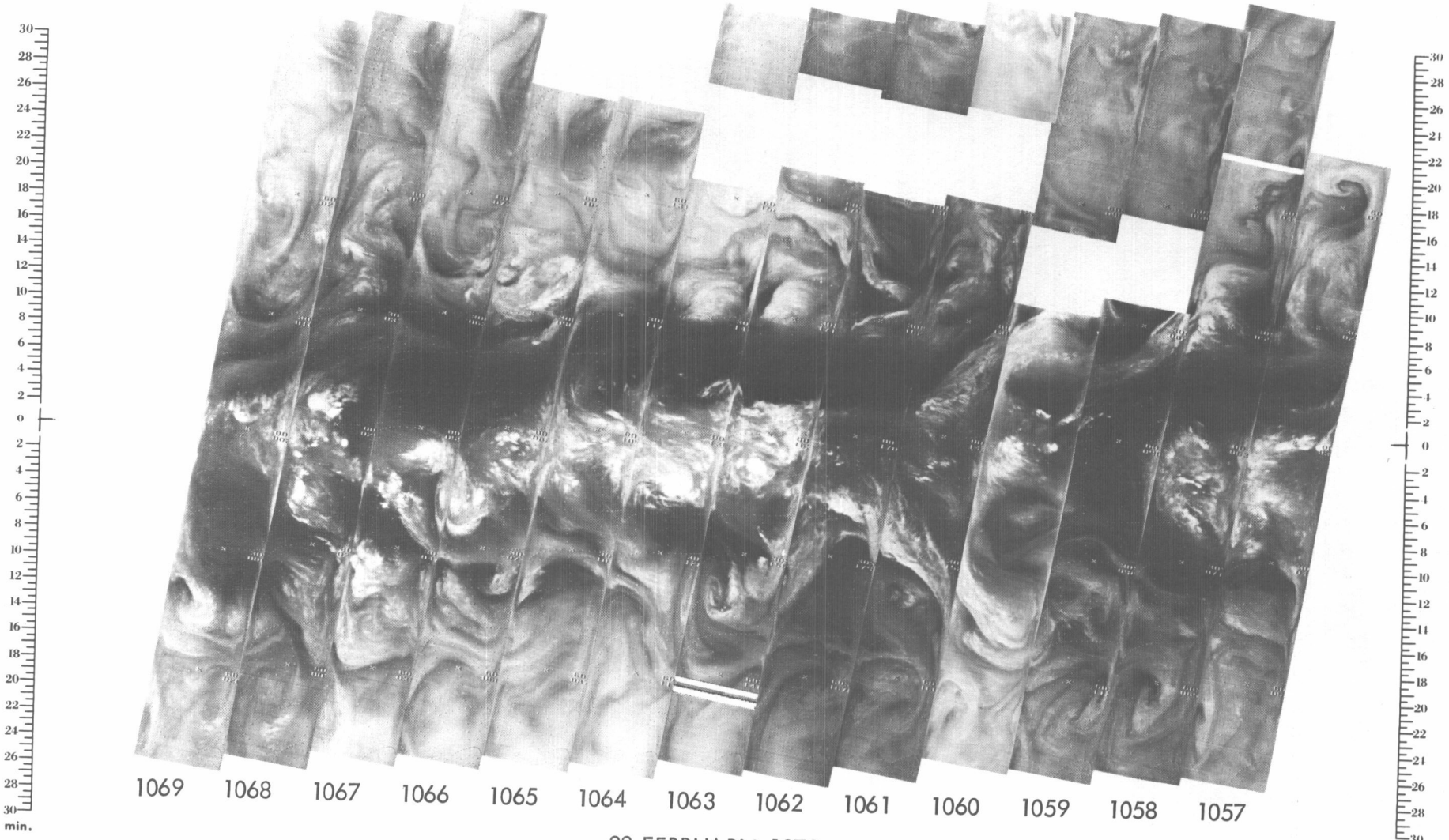
11.5 μm




27 FEBRUARY 1973

6.7 μm

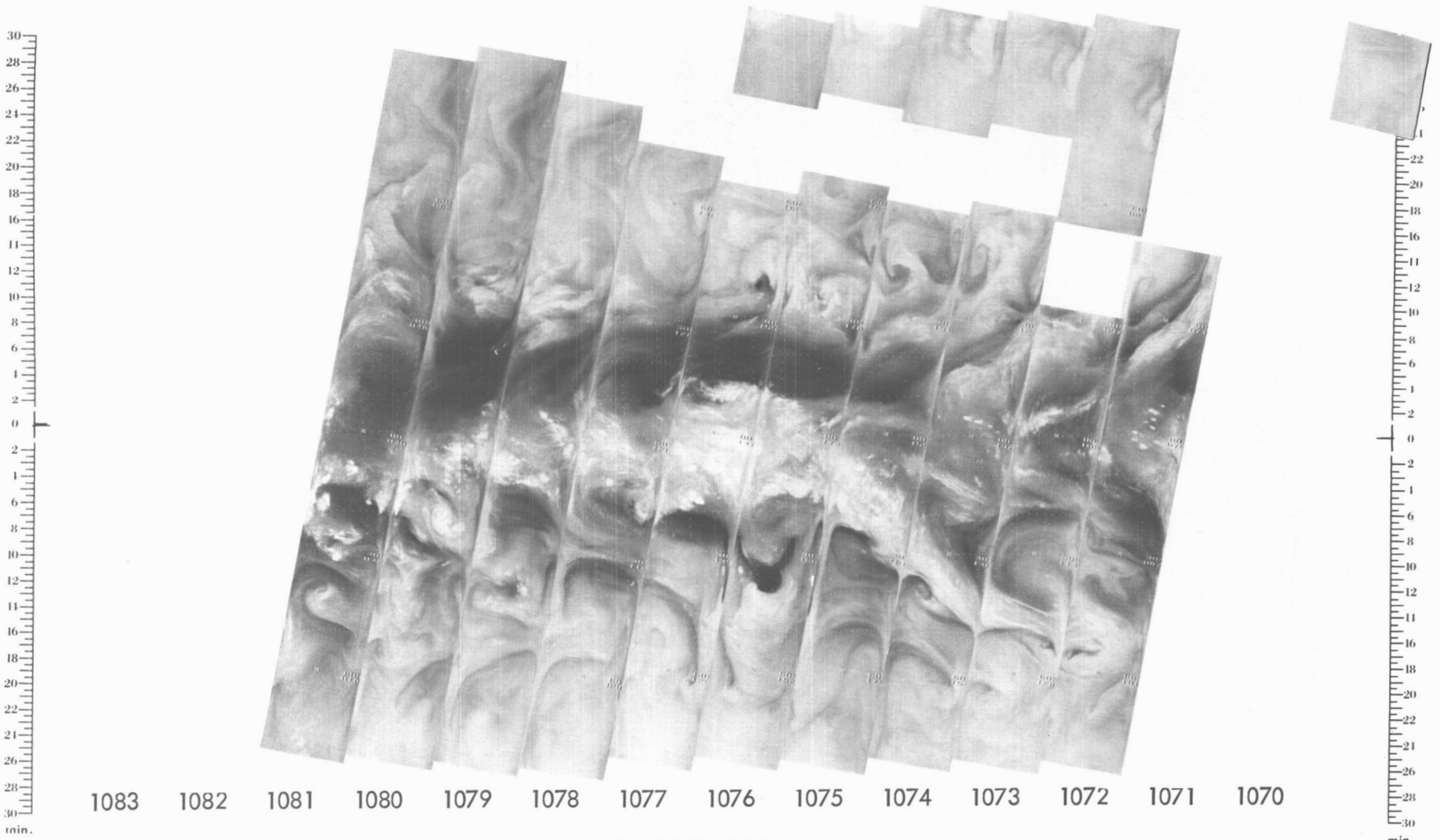
1057
1058
1059
1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
min.
28 FEBRUARY 1973
11.5 μm




28 FEBRUARY 1973

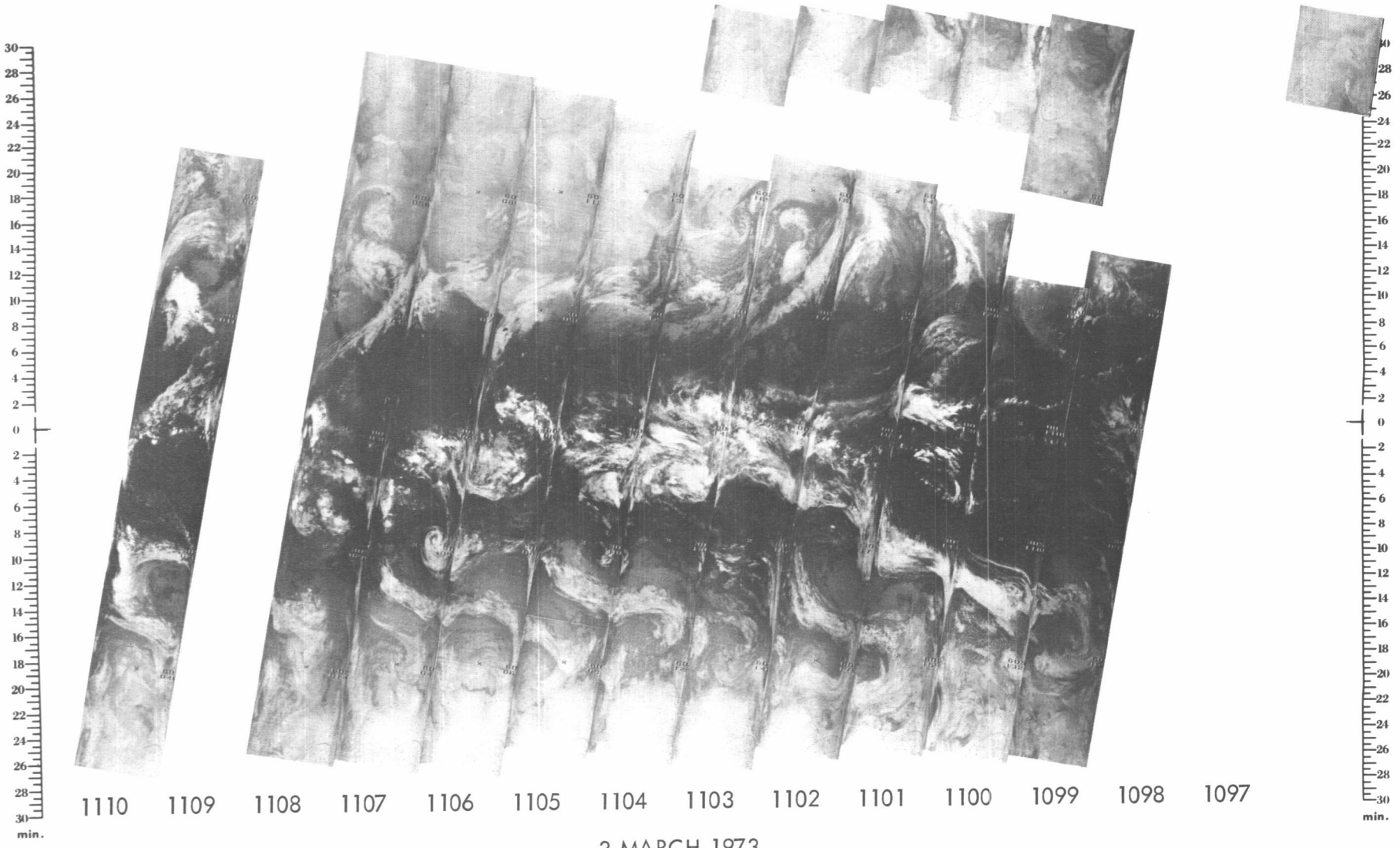
6.7 μm

1070
1071
1072
1073
1074
1075
1076
1077
1078
1079
1080
1081
1082
1083
min.
1 MARCH 1973
11.5 μm


1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071 1070
1 MARCH 1973
6.7 μm
min.
min.

1084
1085
1086
1087
1088
1089
1090
1091
1092
1093
1094
1095
1096
min.
2 MARCH 1973
11.5 μm

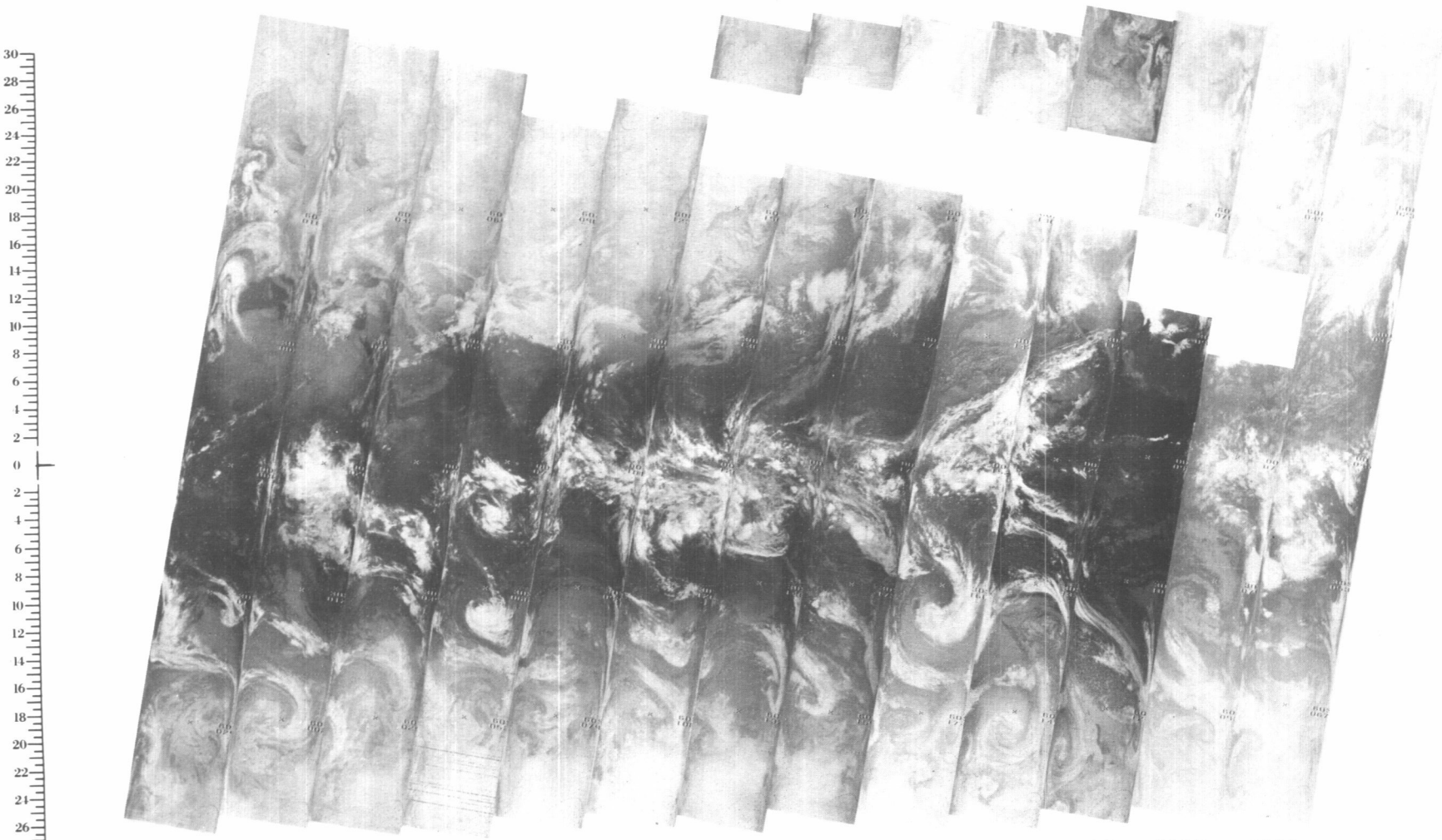
1084
1085
1086
1087
1088
1089
1090
1091
1092
1093
1094
1095
1096
min.
2 MARCH 1973
6.7 μm




3 MARCH 1973

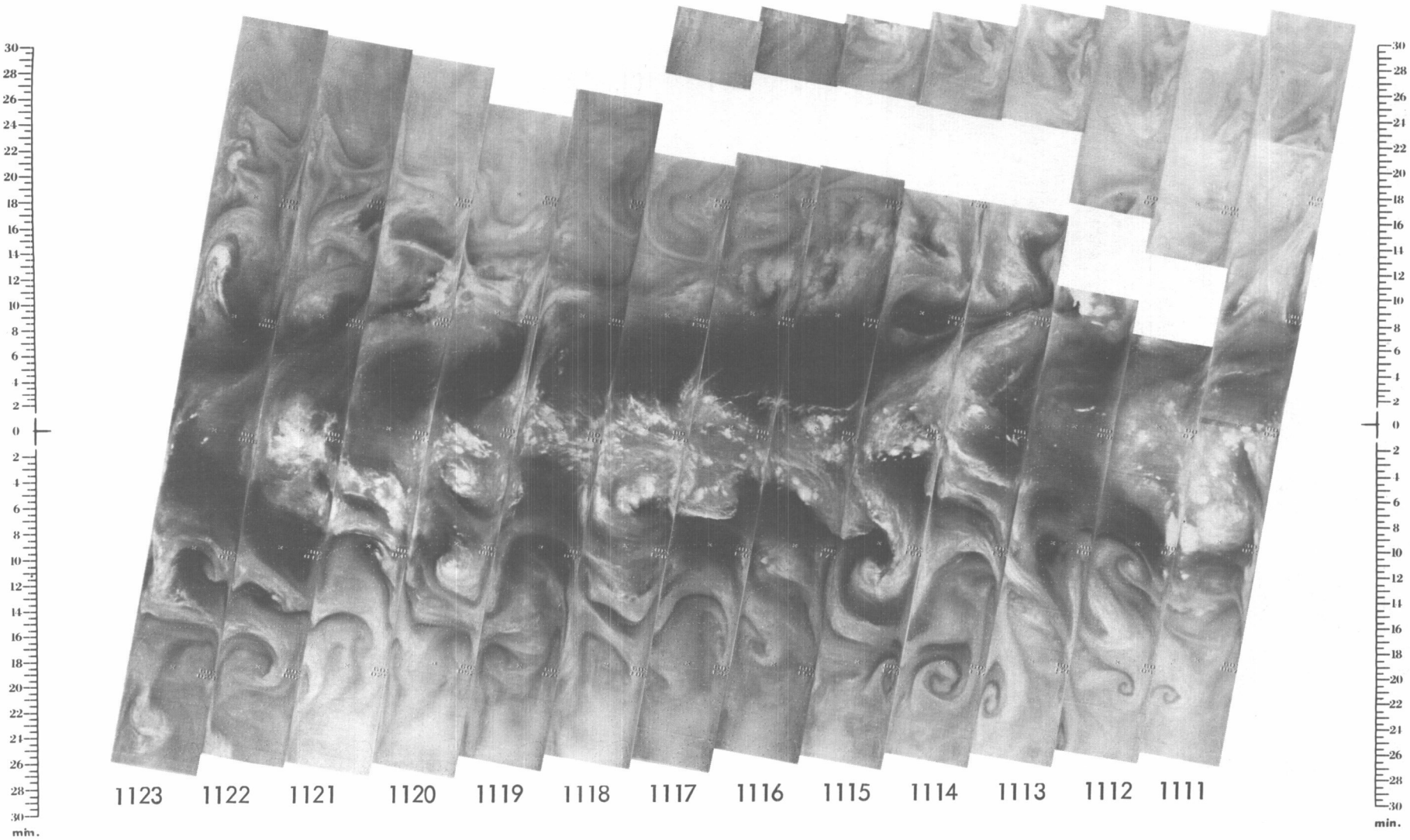
11.5 μm

1097
1098
1099
1100
1101
1102
1103
1104
1105
1106
1107
1108
1109
1110
3 MARCH 1973
6.7 μm
min.




4 MARCH 1973

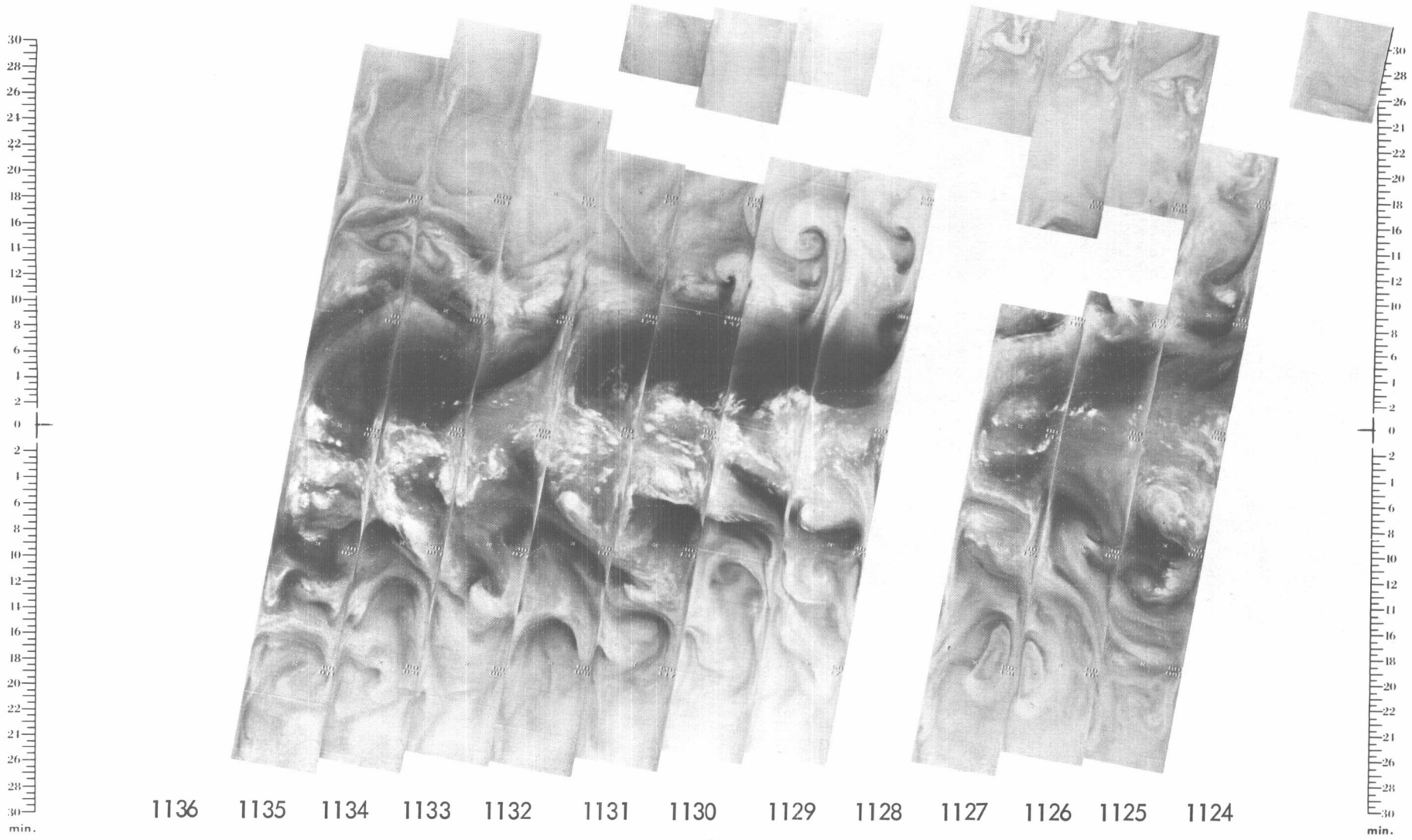
11.5 μm




4 MARCH 1973

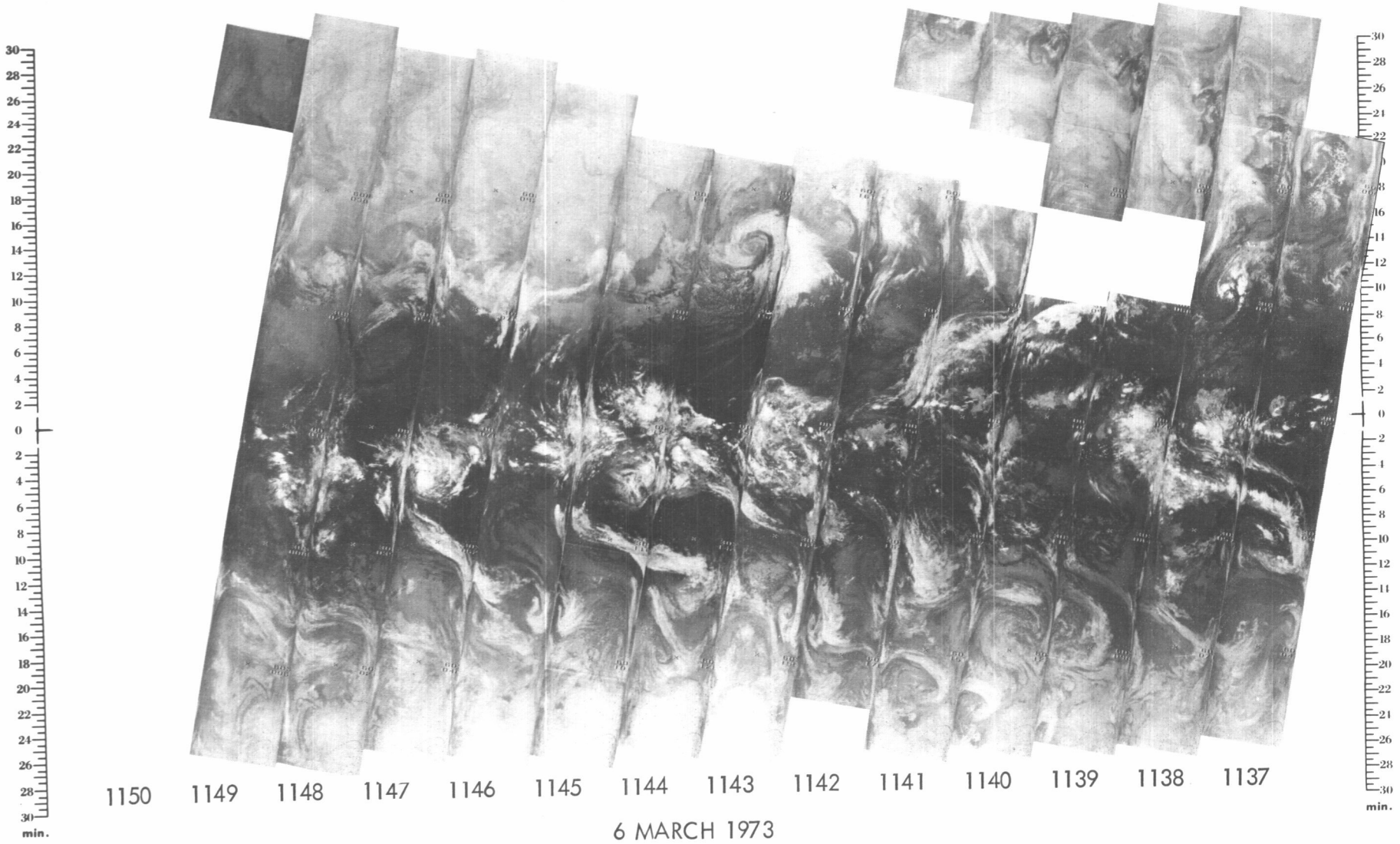
6.7 μm

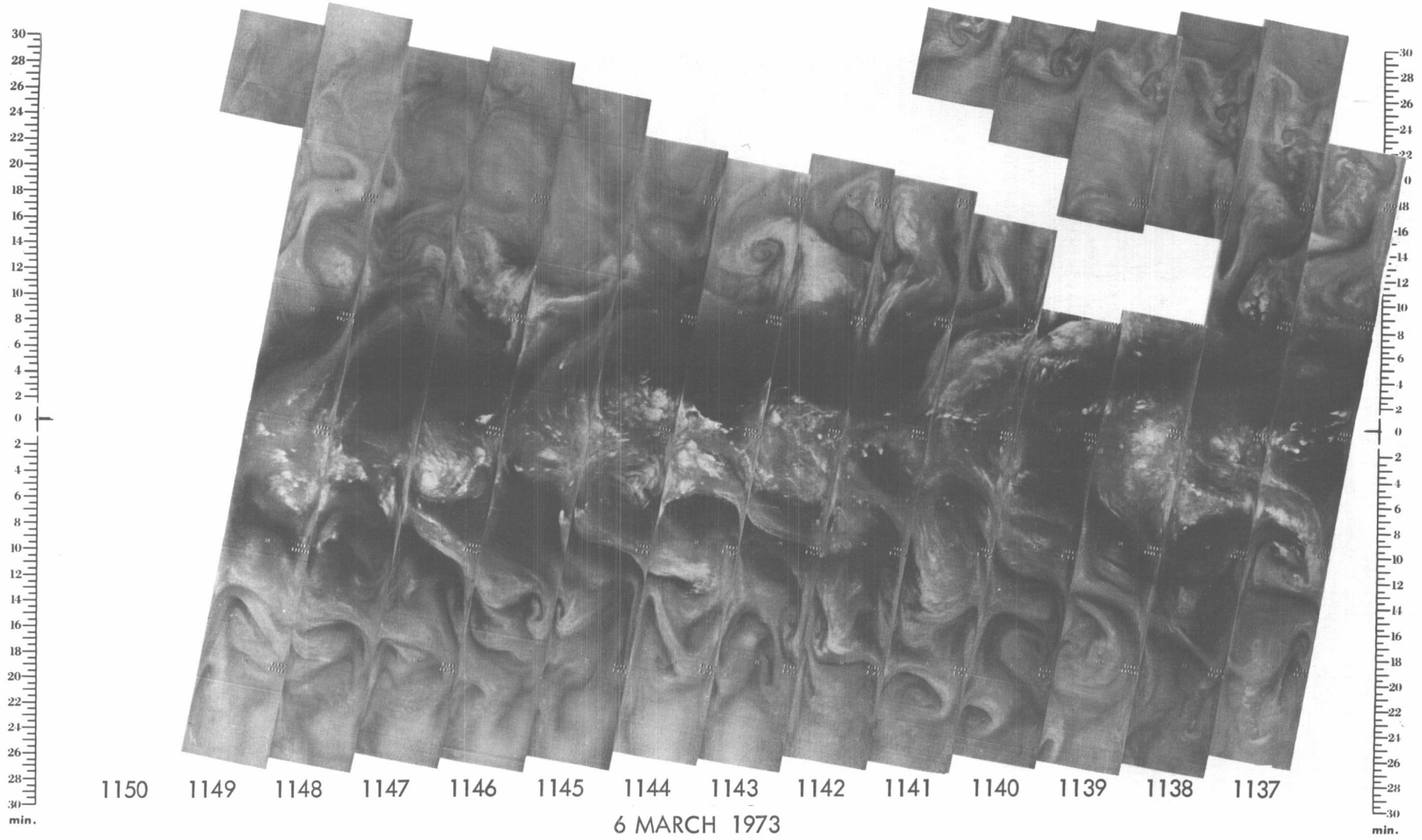
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1124
1125
1126
1127
1128
1129
1130
1131
1132
1133
1134
1135
1136
5 MARCH 1973
11.5 μm



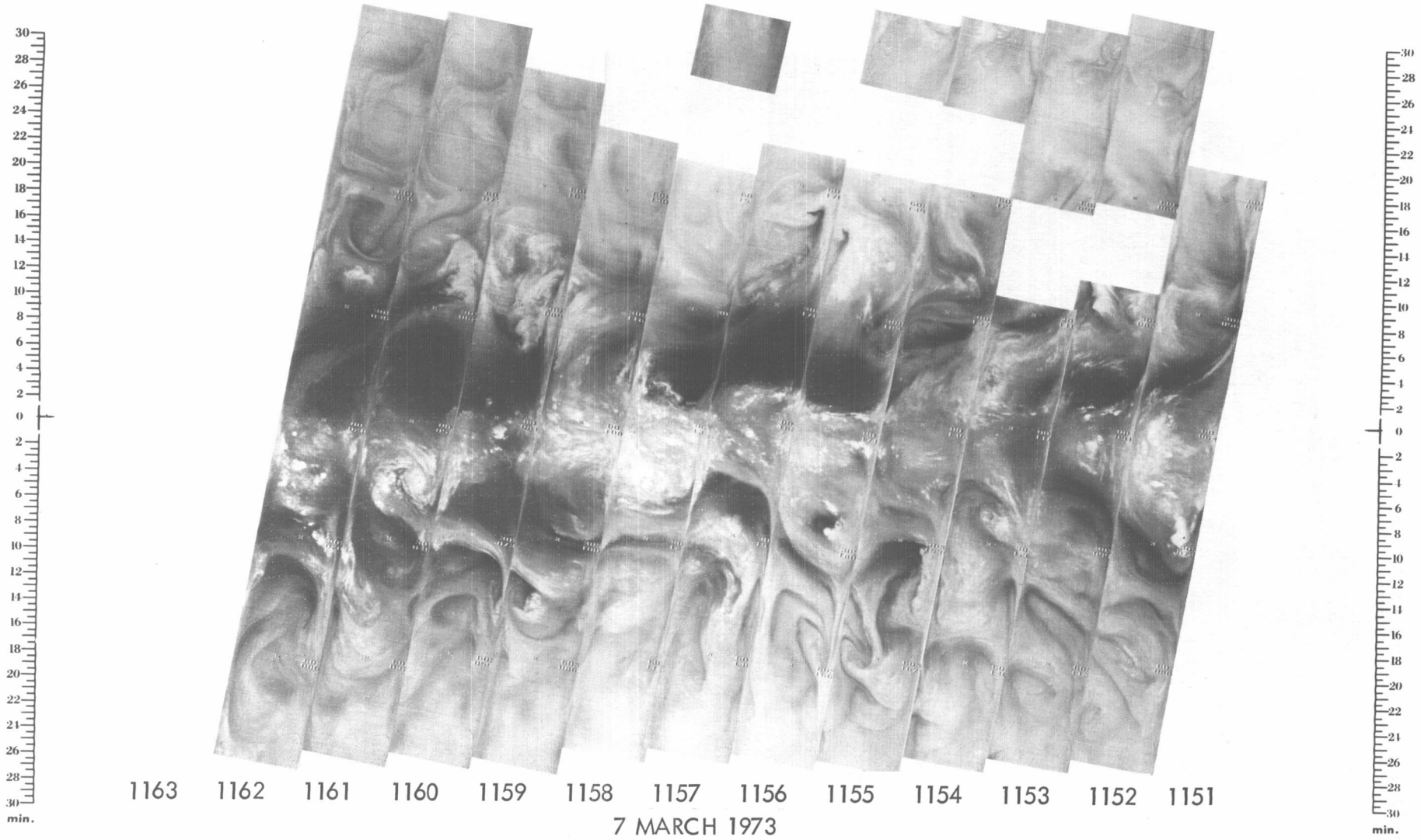

5 MARCH 1973

6.7 μm


1150
1149
1148
1147
1146
1145
1144
1143
1142
1141
1140
1139
1138
1137
min.
6 MARCH 1973
11.5 μm

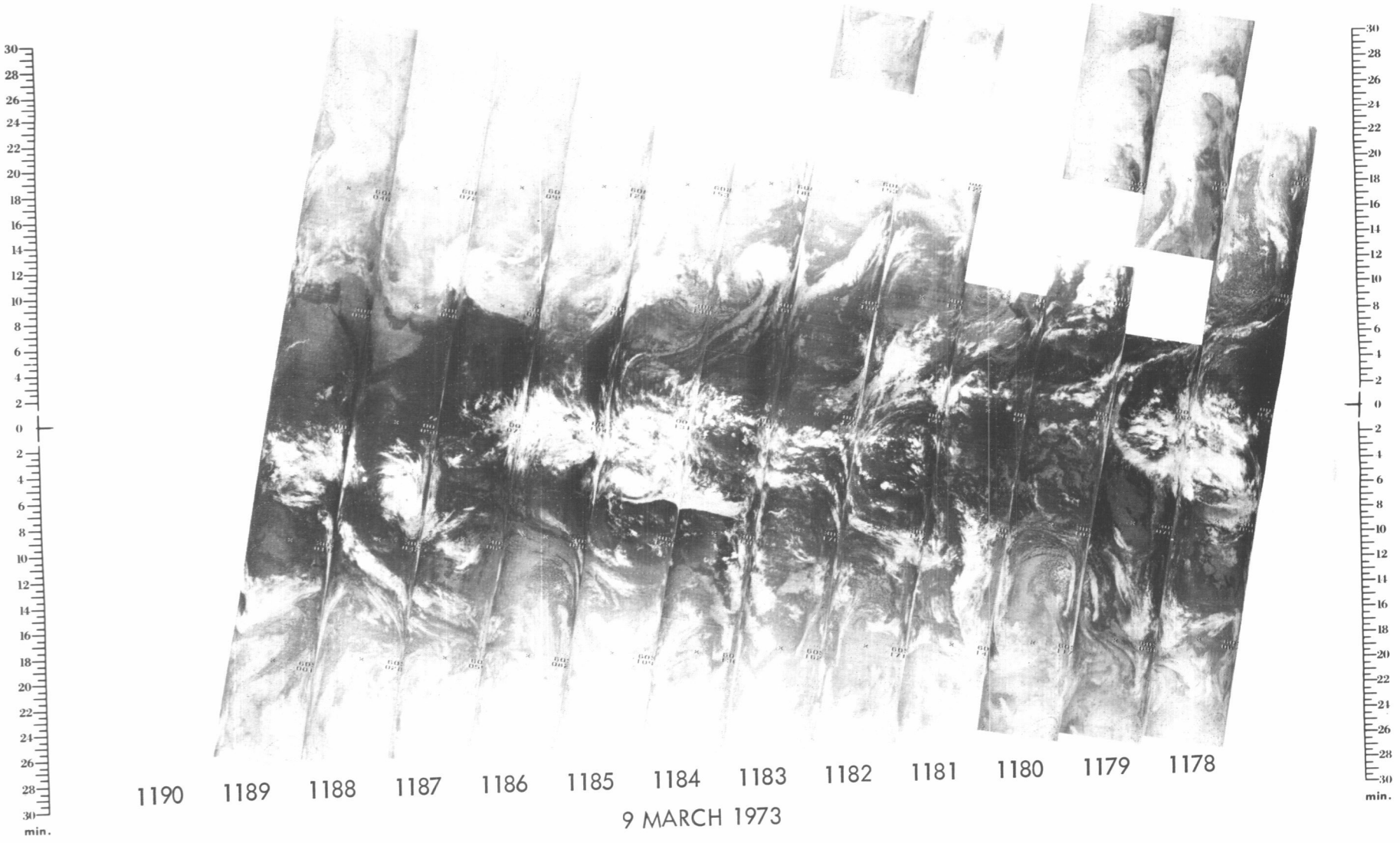

1150 1149 1148 1147 1146 1145 1144 1143 1142 1141 1140 1139 1138 1137
6 MARCH 1973
6.7 μm
min.
min.

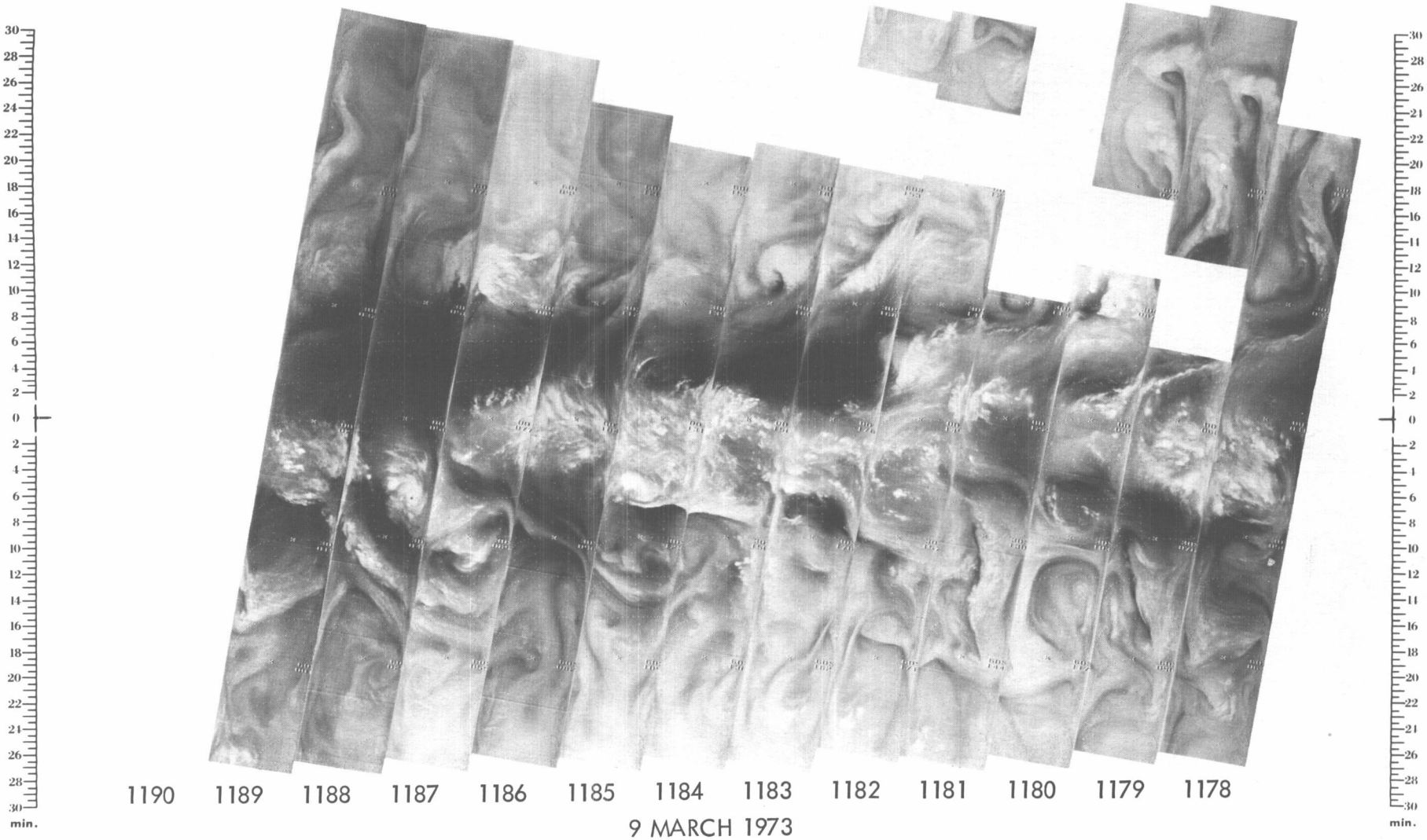
1163 1162 1161 1160 1159 1158 1157 1156 1155 1154 1153 1152 1151
7 MARCH 1973
11.5 μm
min.


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1163 1162 1161 1160 1159 1158 1157 1156 1155 1154 1153 1152 1151
7 MARCH 1973
6.7 μm
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177
8 MARCH 1973
11.5 μm

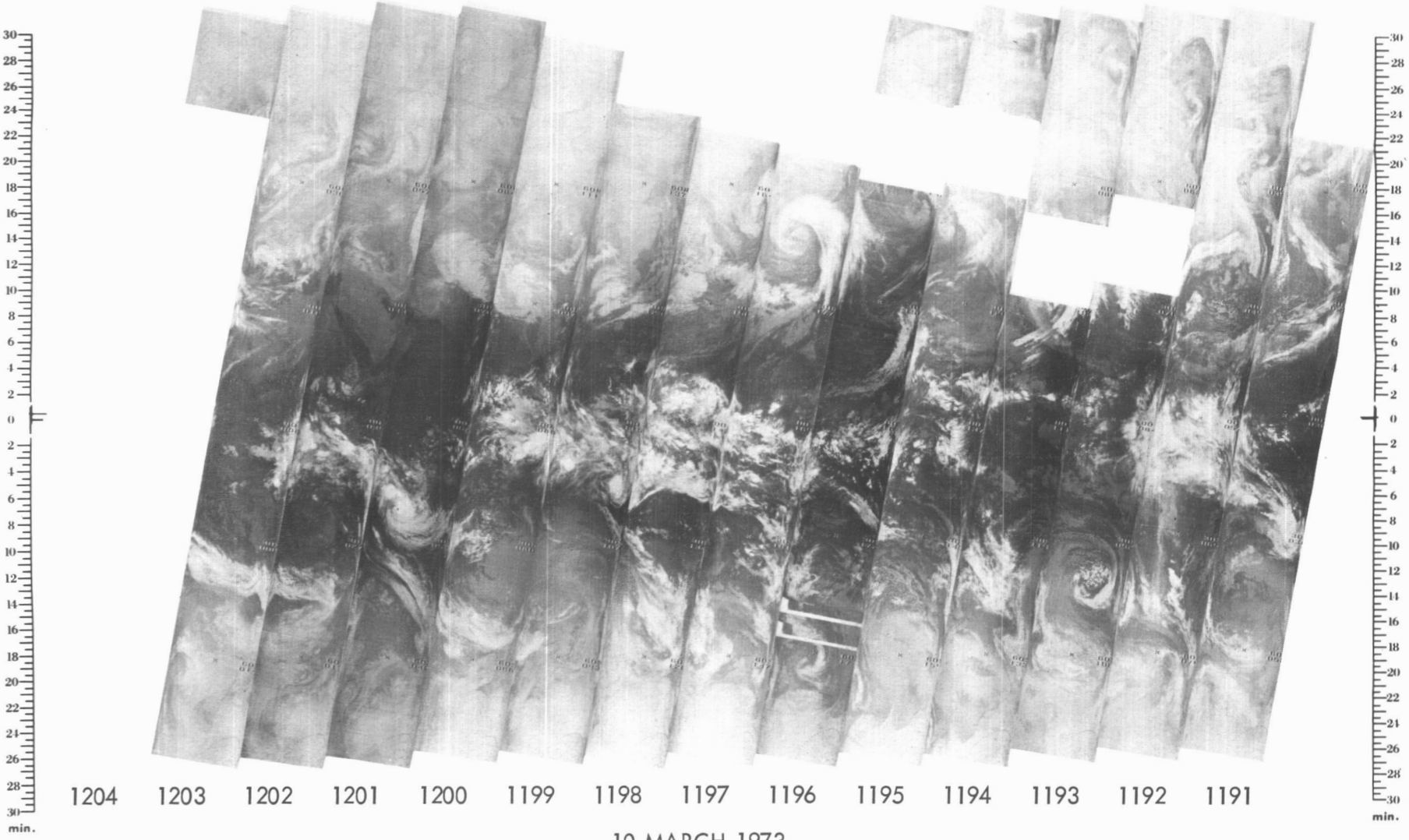
1177 1176 1175 1174 1173 1172 1171 1170 1169 1168 1167 1166 1165 1164
8 MARCH 1973
6.7 μm
min.

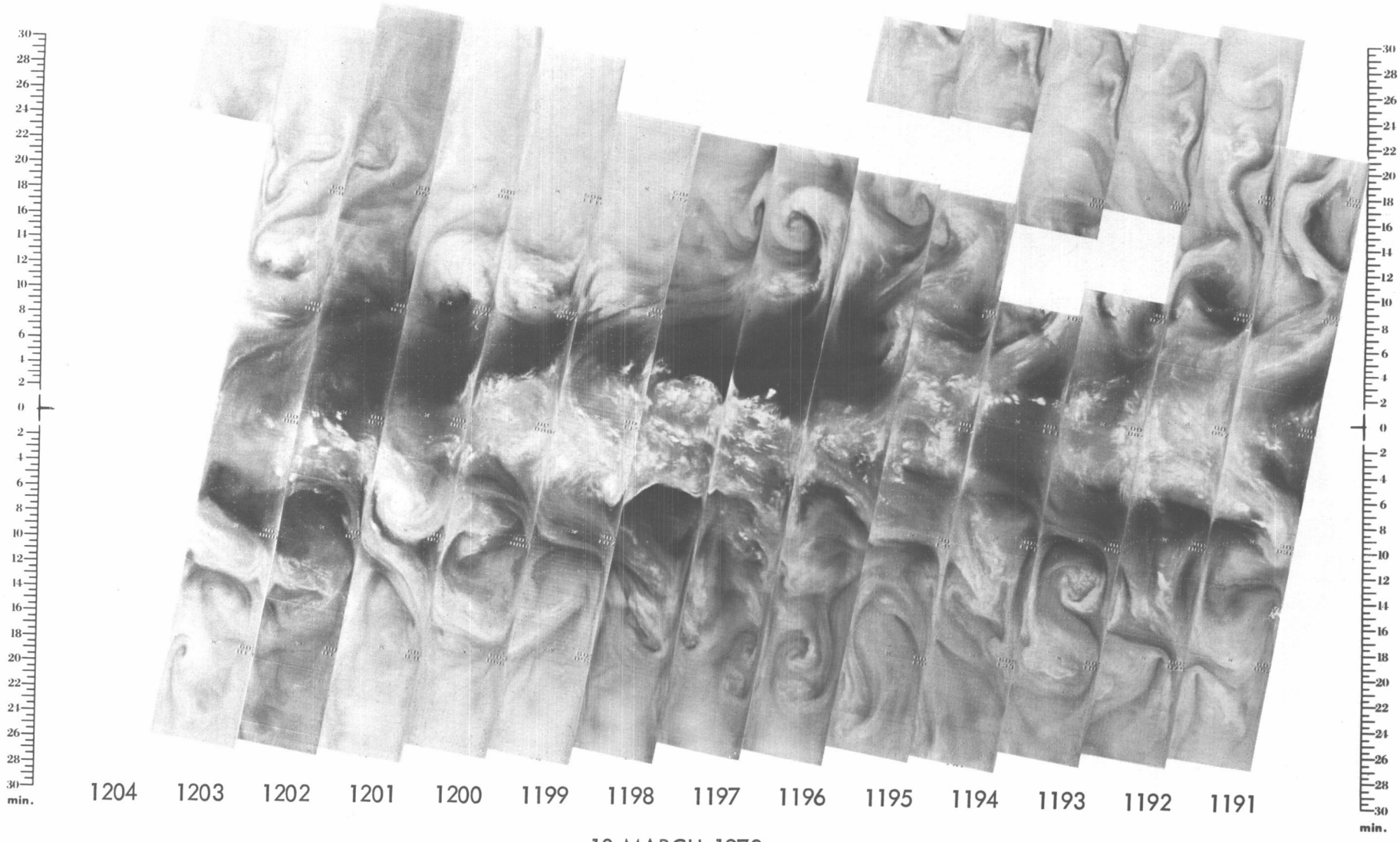

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1190 1189 1188 1187 1186 1185 1184 1183 1182 1181 1180 1179 1178
9 MARCH 1973
11.5 μm
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.




9 MARCH 1973

6.7 μm


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191
10 MARCH 1973
11.5 μm



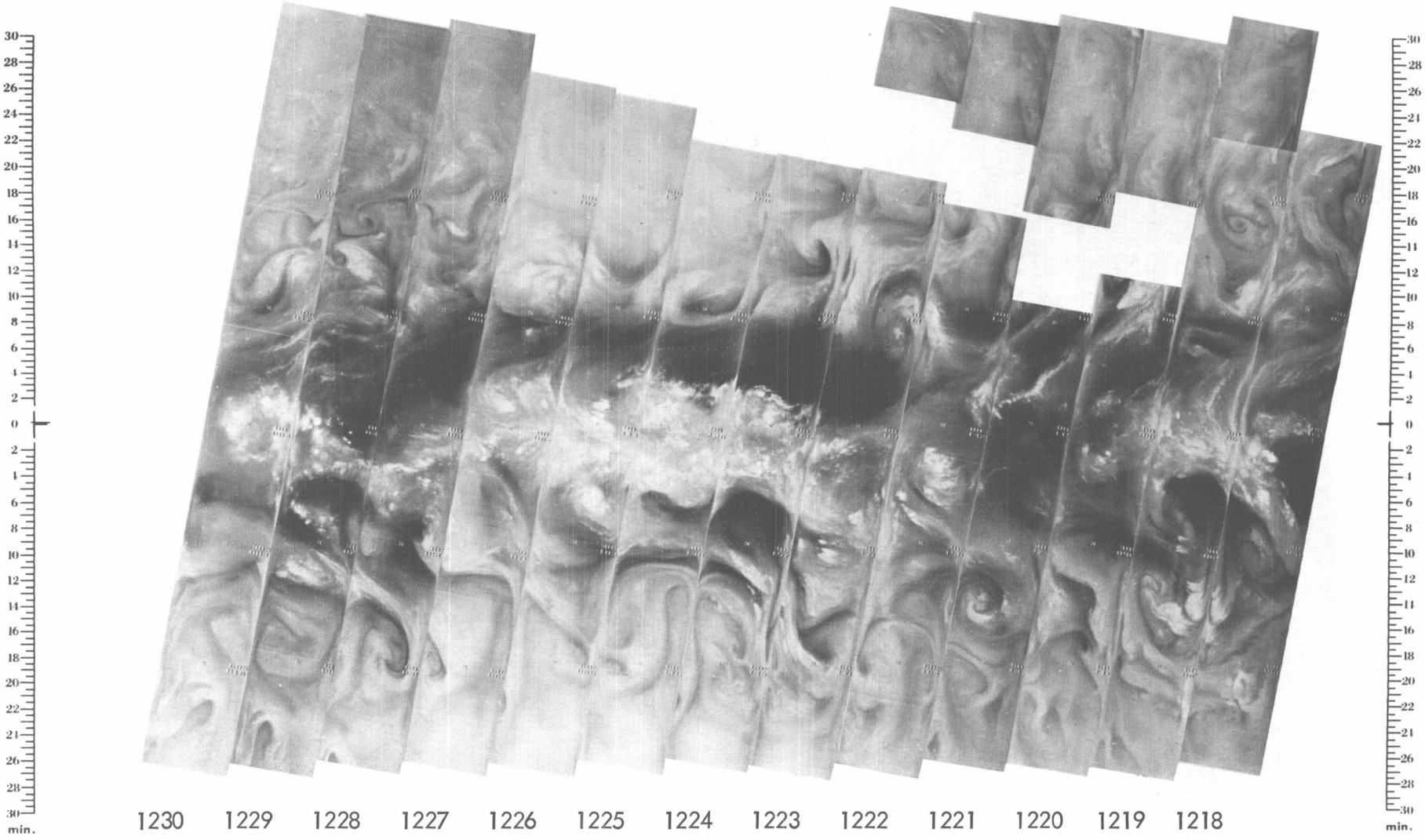

10 MARCH 1973

6.7 μm

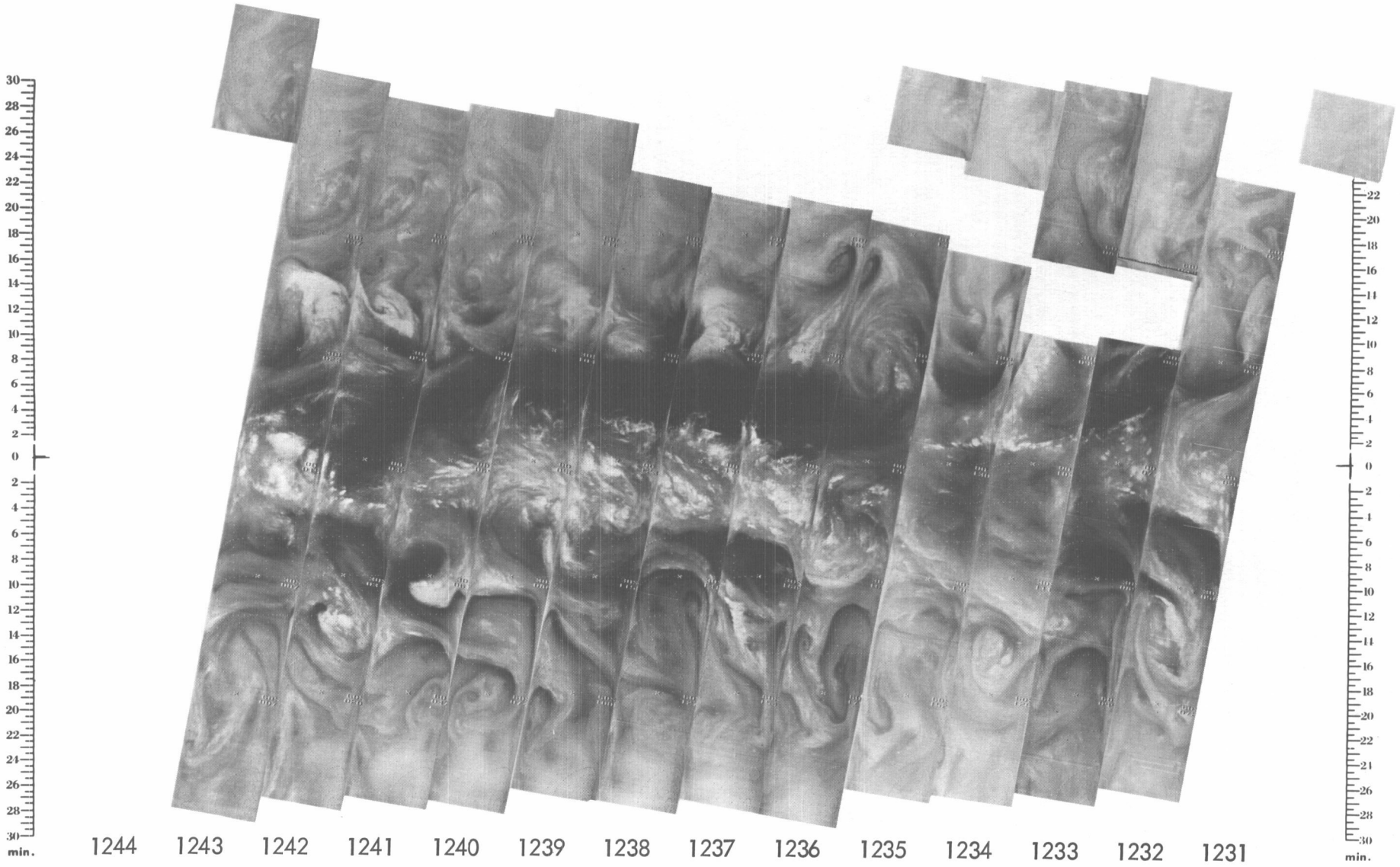
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217
11 MARCH 1973
11.5 μm
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

1205
1206
1207
1208
1209
1210
1211
1212
1213
1214
1215
1216
1217
11 MARCH 1973
6.7 μm
min.

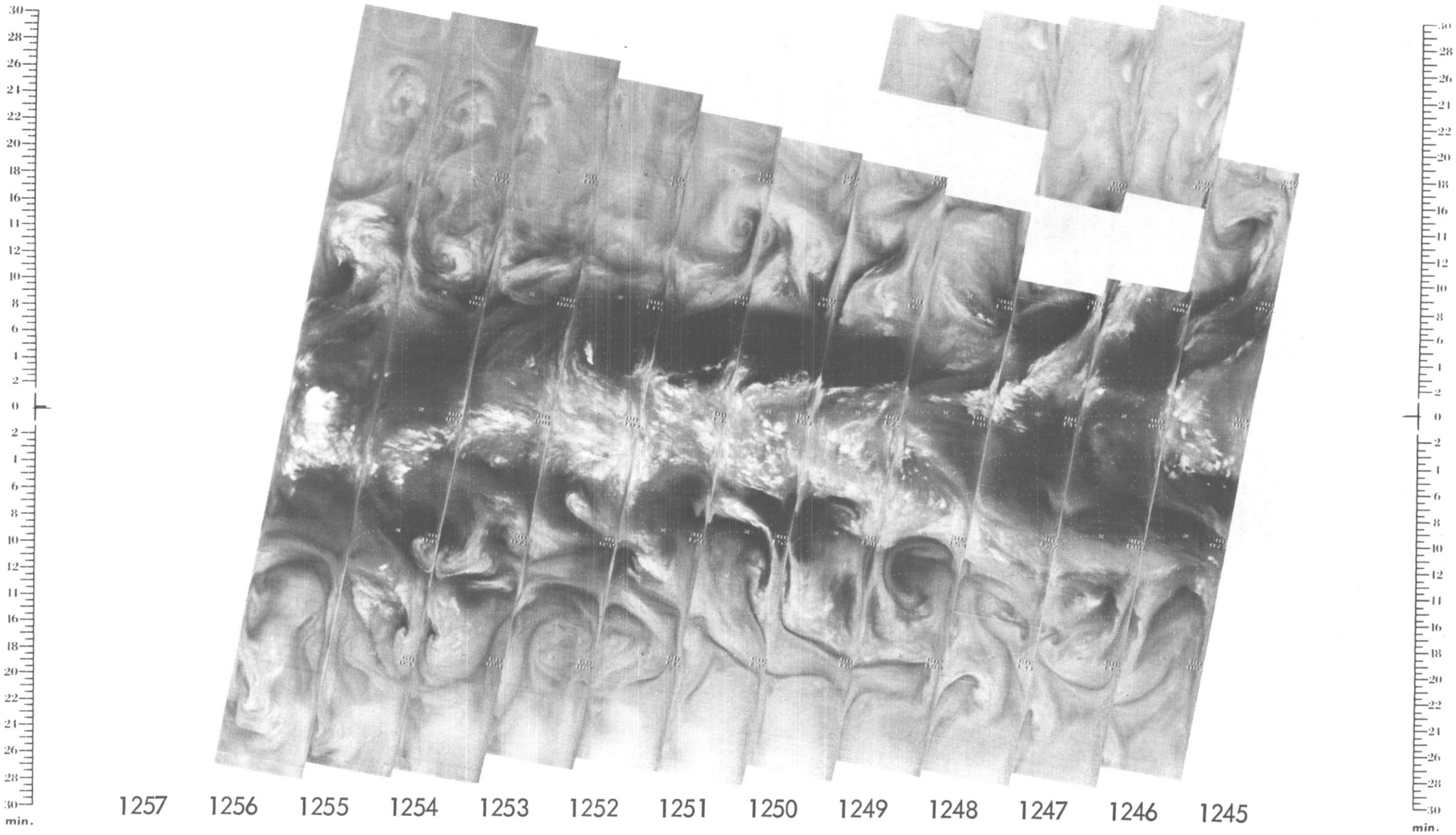
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218
12 MARCH 1973
11.5 μm


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218
12 MARCH 1973
6.7 μm

1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231
13 MARCH 1973
11.5 μm
min.

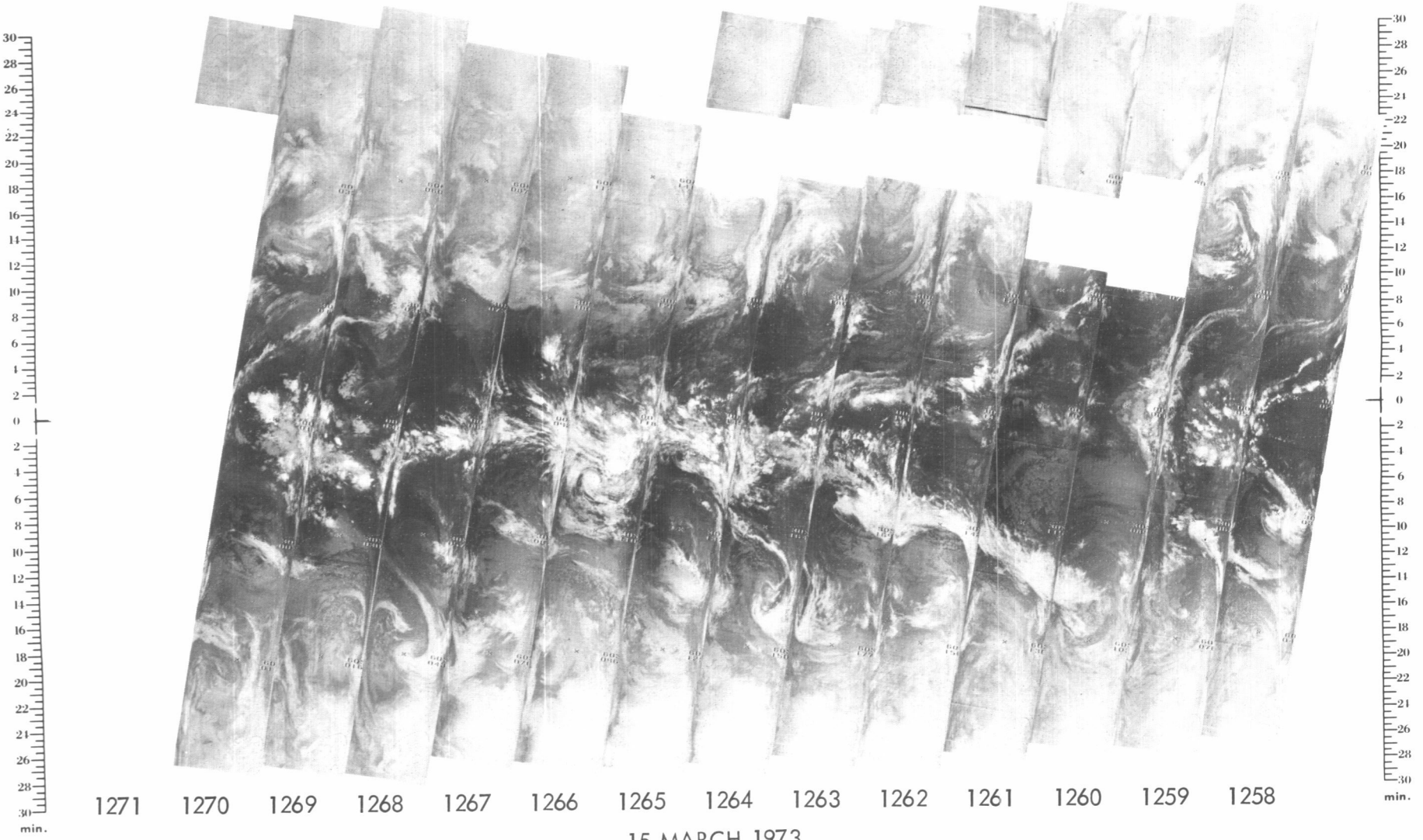

1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231
min.
13 MARCH 1973
6.7 μm

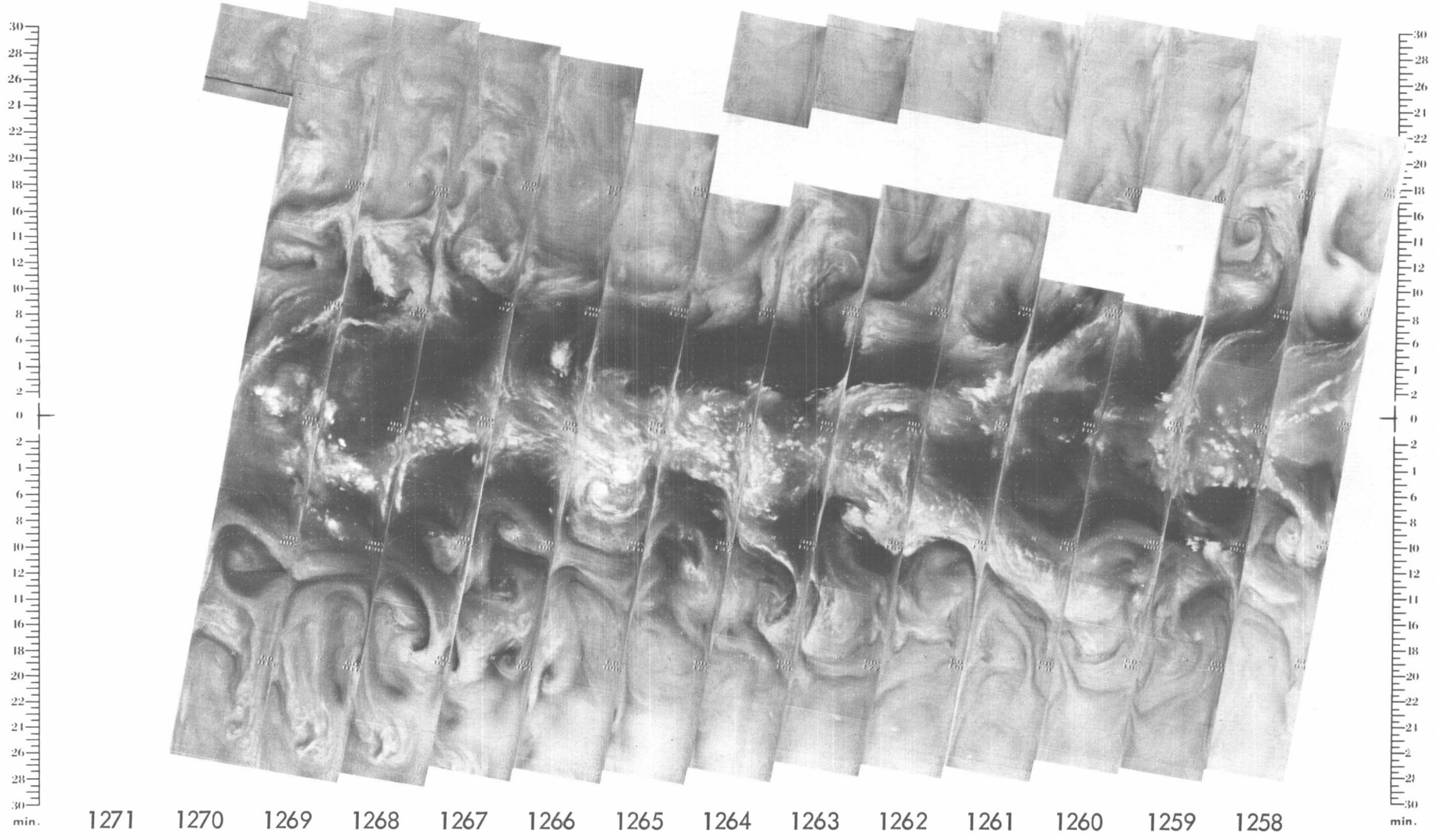
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257
14 MARCH 1973
11.5 μm




14 MARCH 1973

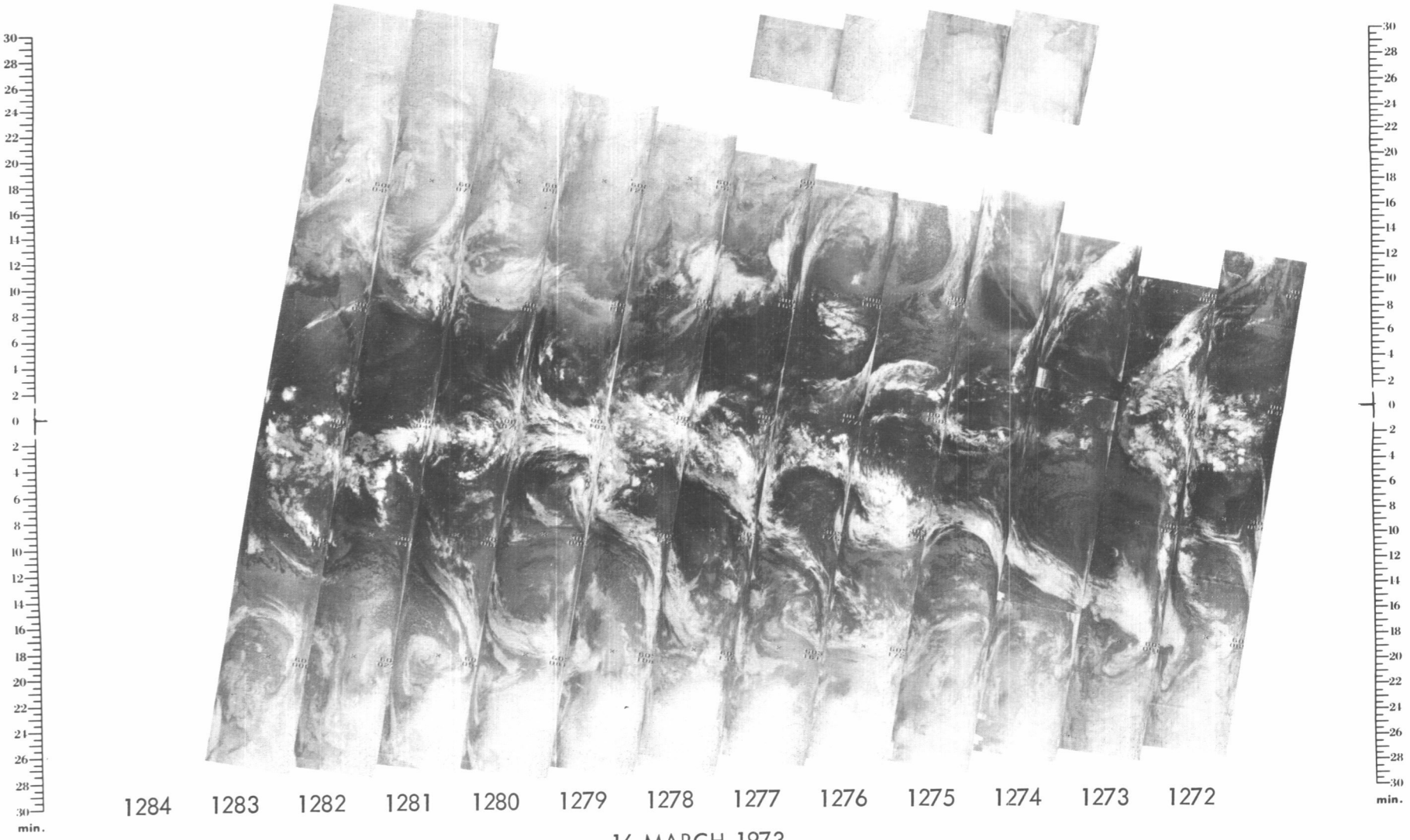
6.7 μm

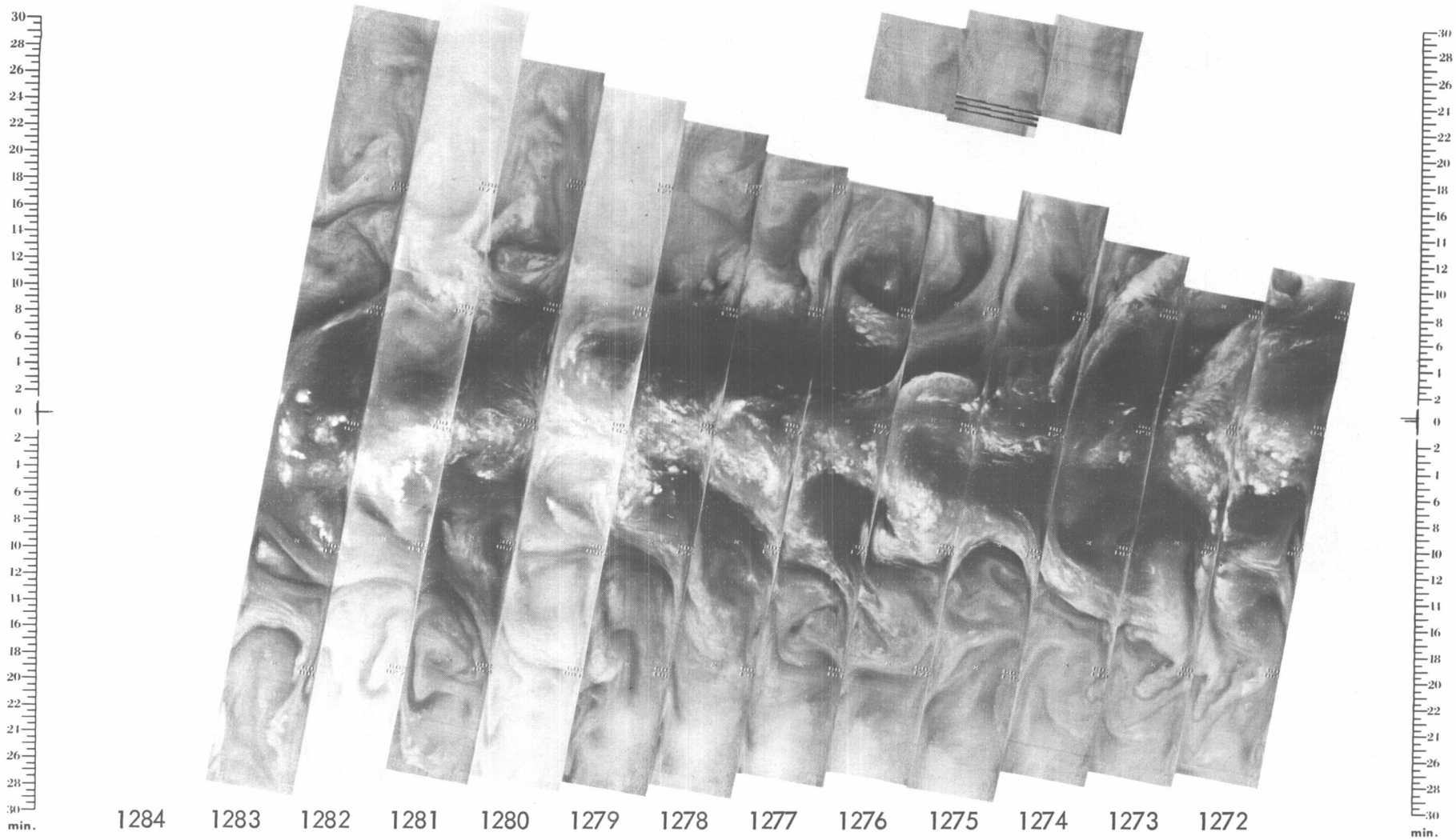

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258
15 MARCH 1973
11.5 μm




15 MARCH 1973

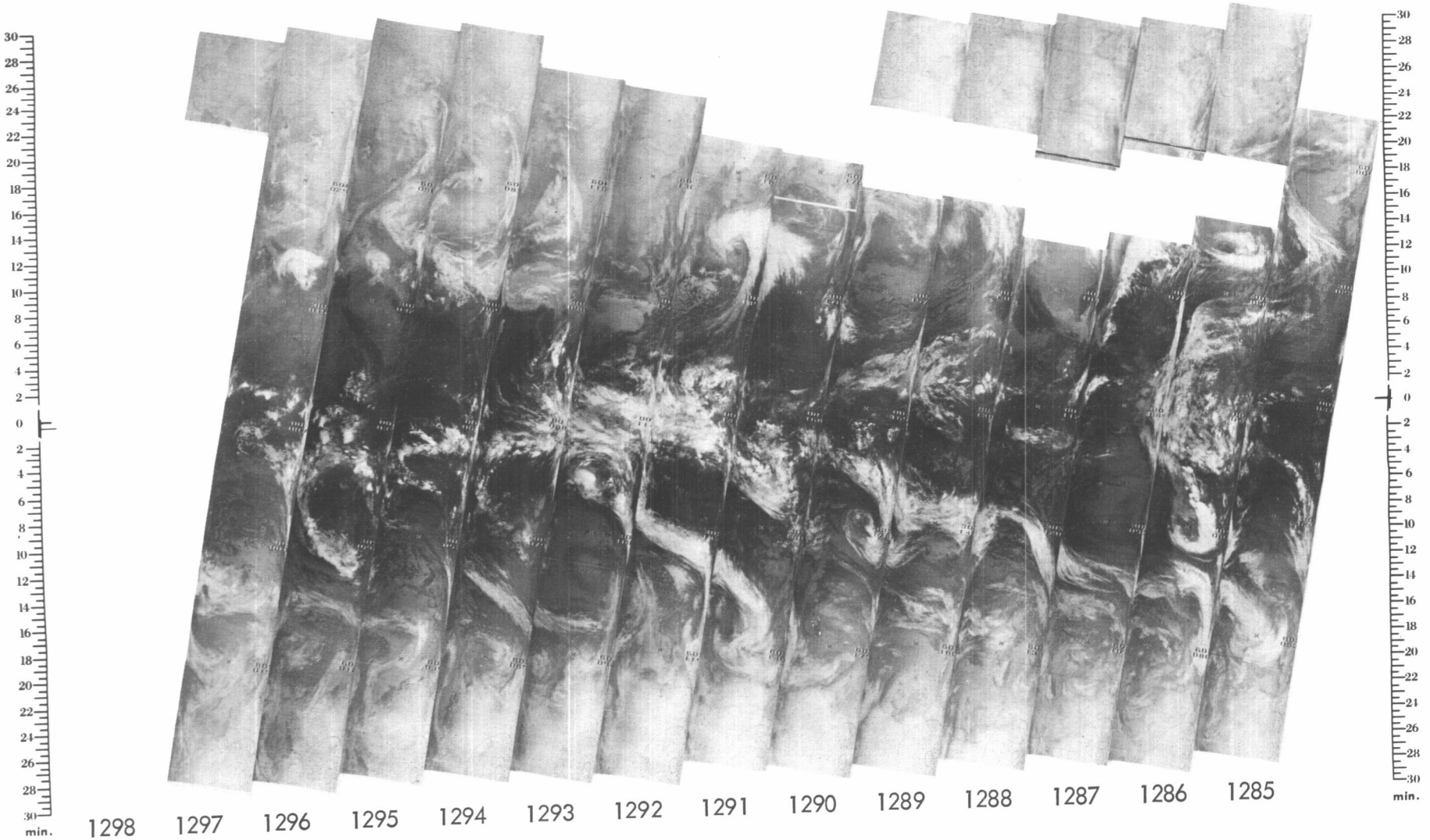
6.7 μm


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272
16 MARCH 1973
11.5 μm



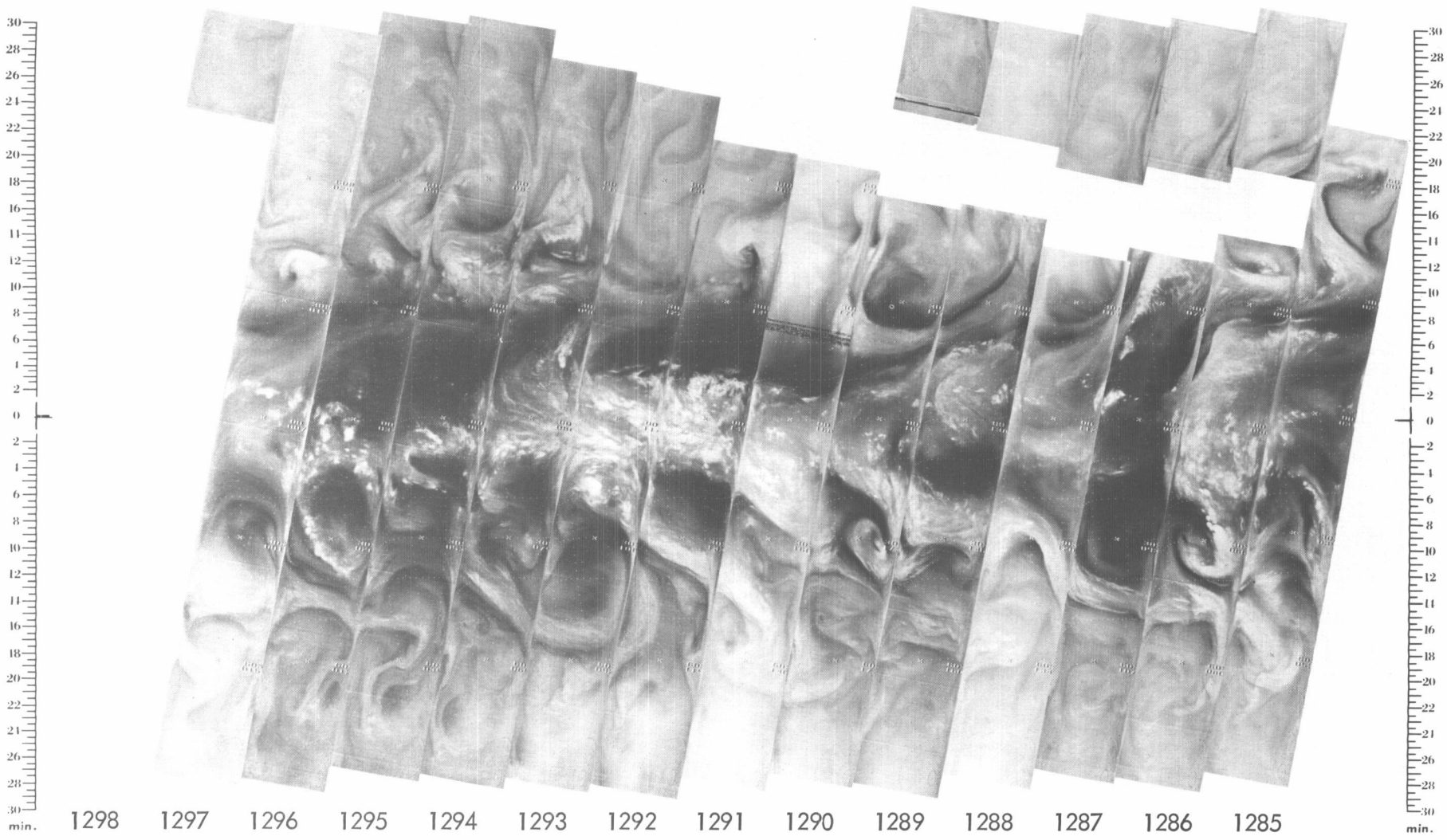

16 MARCH 1973

6.7 μm




17 MARCH 1973

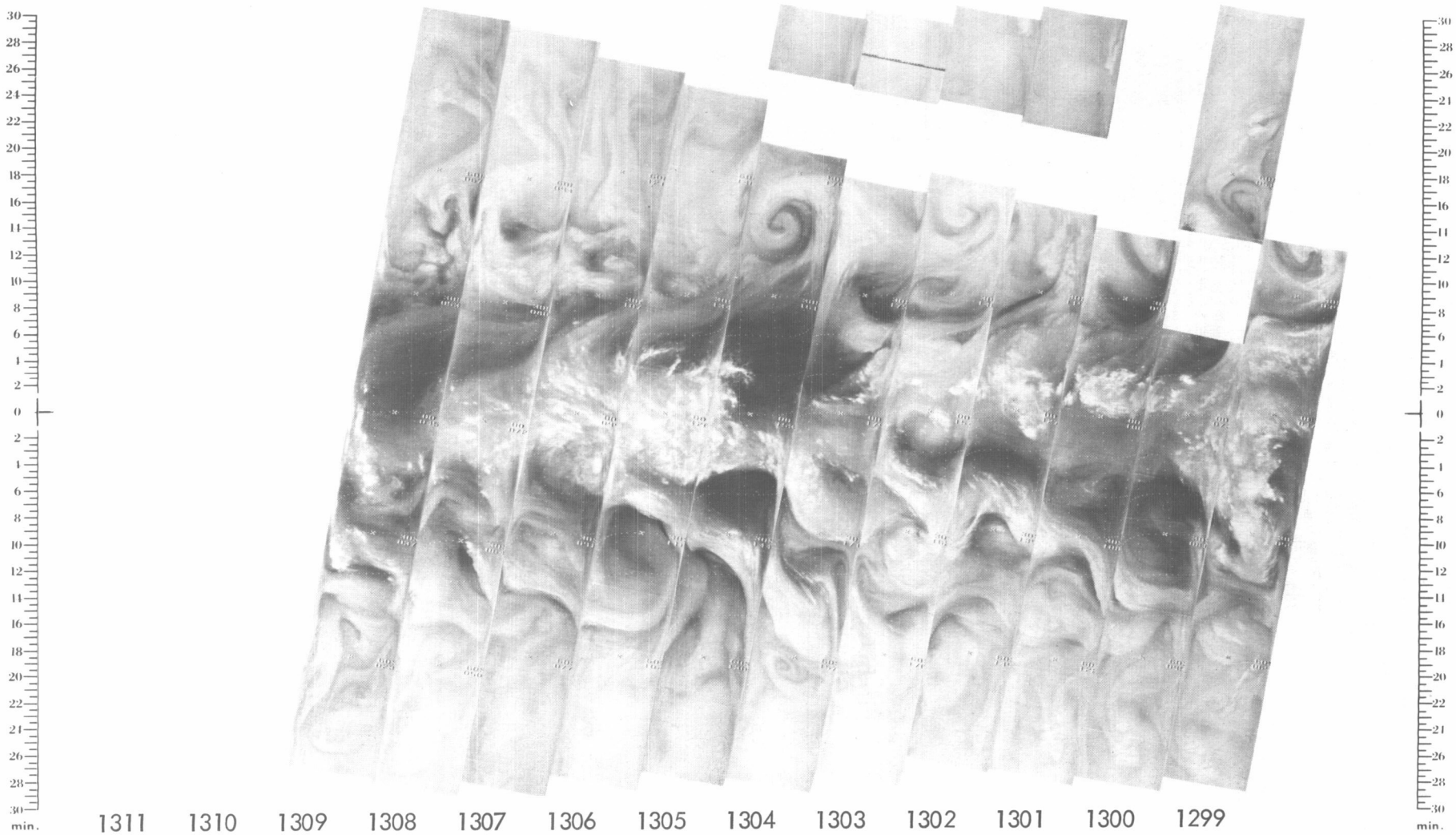
11.5 μm




17 MARCH 1973

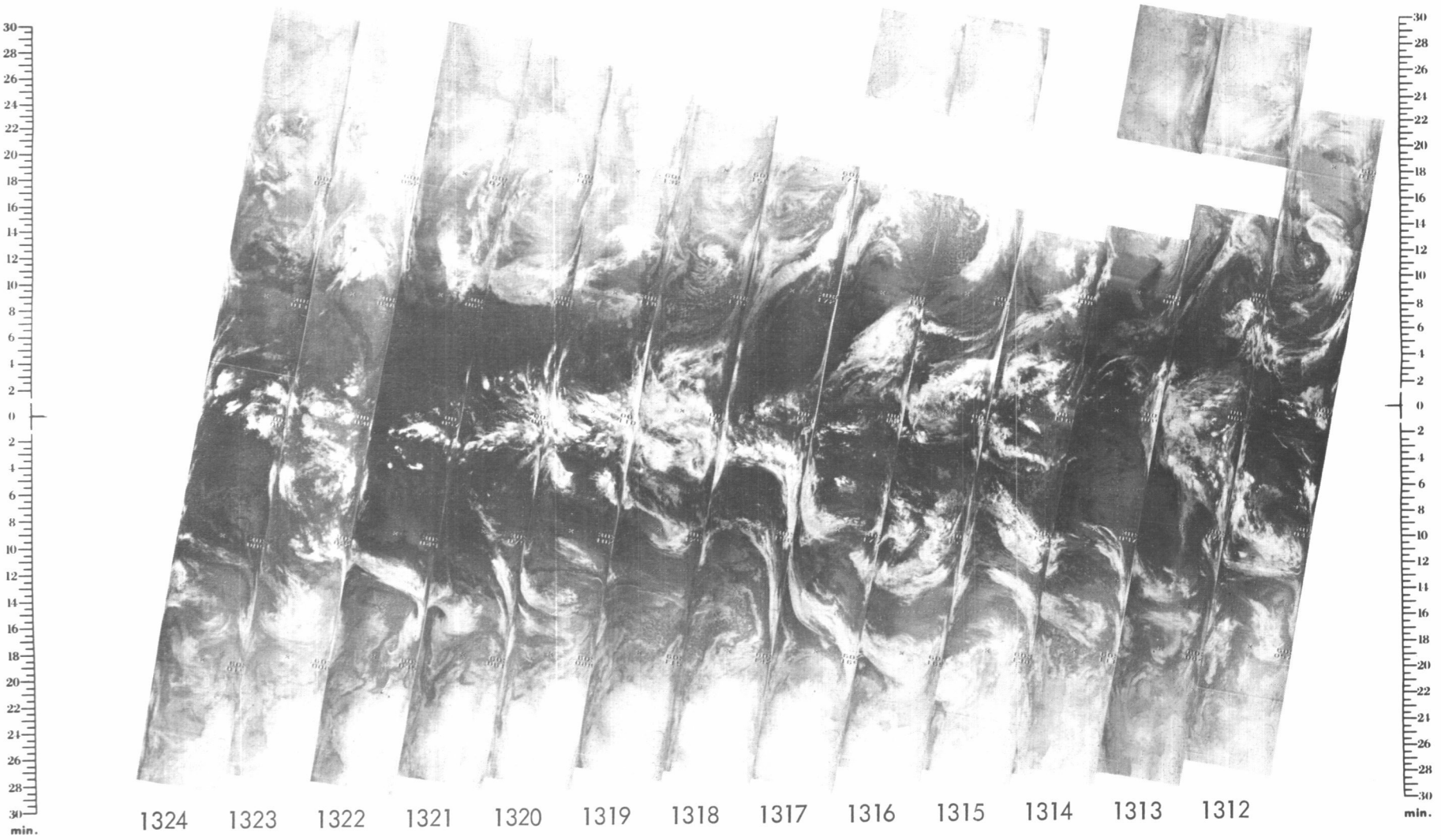
6.7 μm

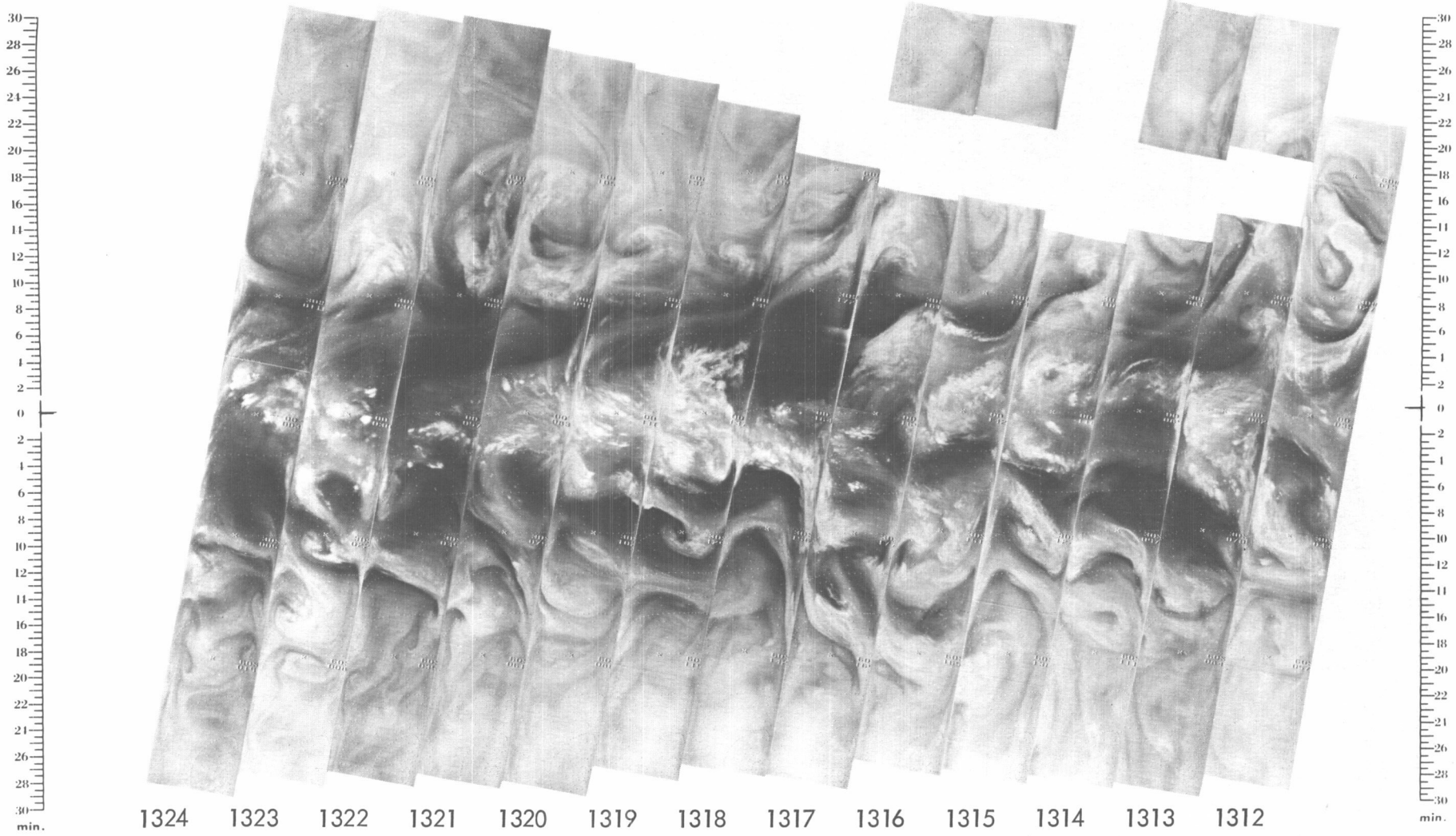
1311
1310
1309
1308
1307
1306
1305
1304
1303
1302
1301
1300
1299
18 MARCH 1973
11.5 μm
min.




18 MARCH 1973

6.7 μm

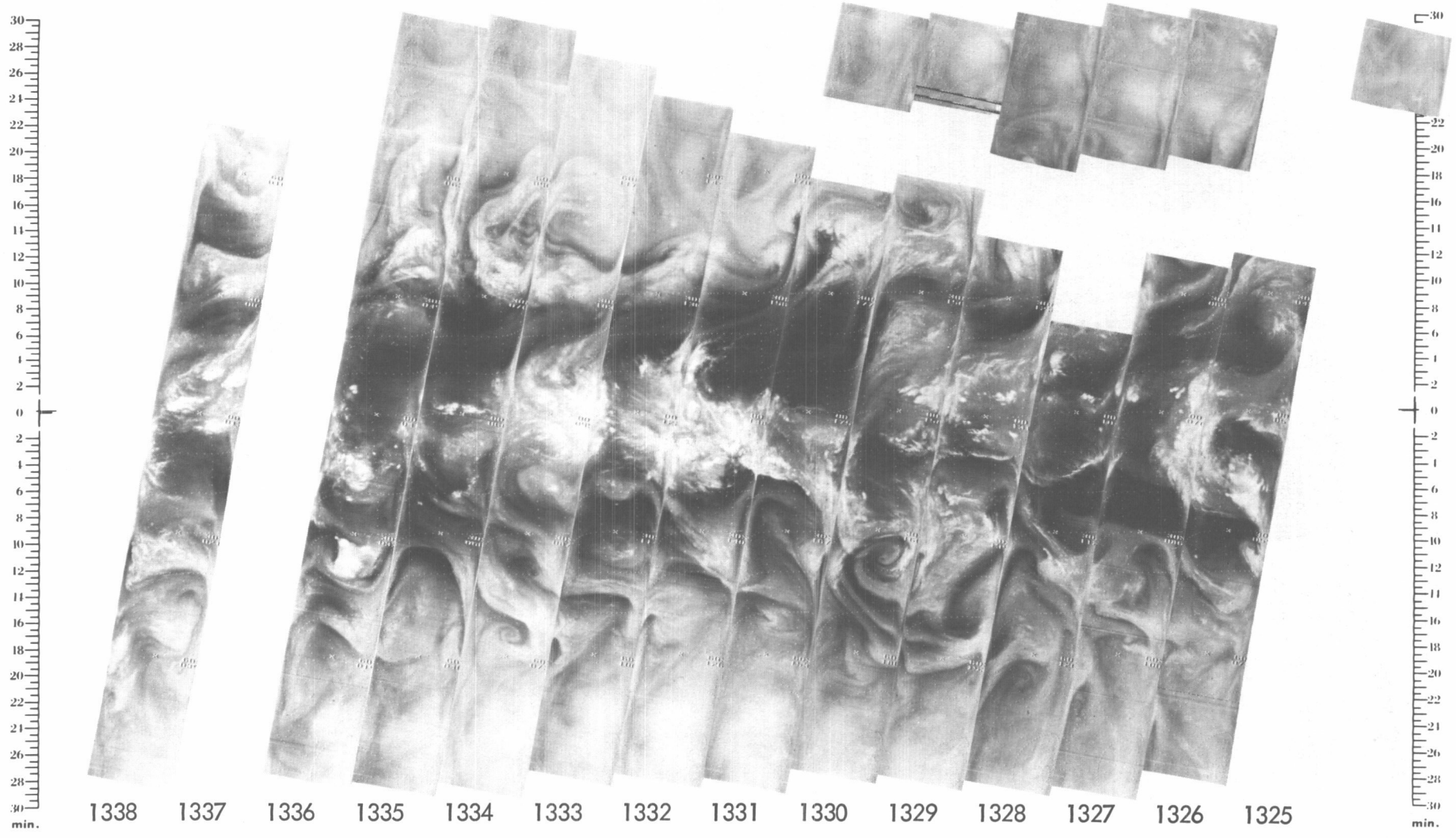

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312
19 MARCH 1973
11.5 μm




19 MARCH 1973

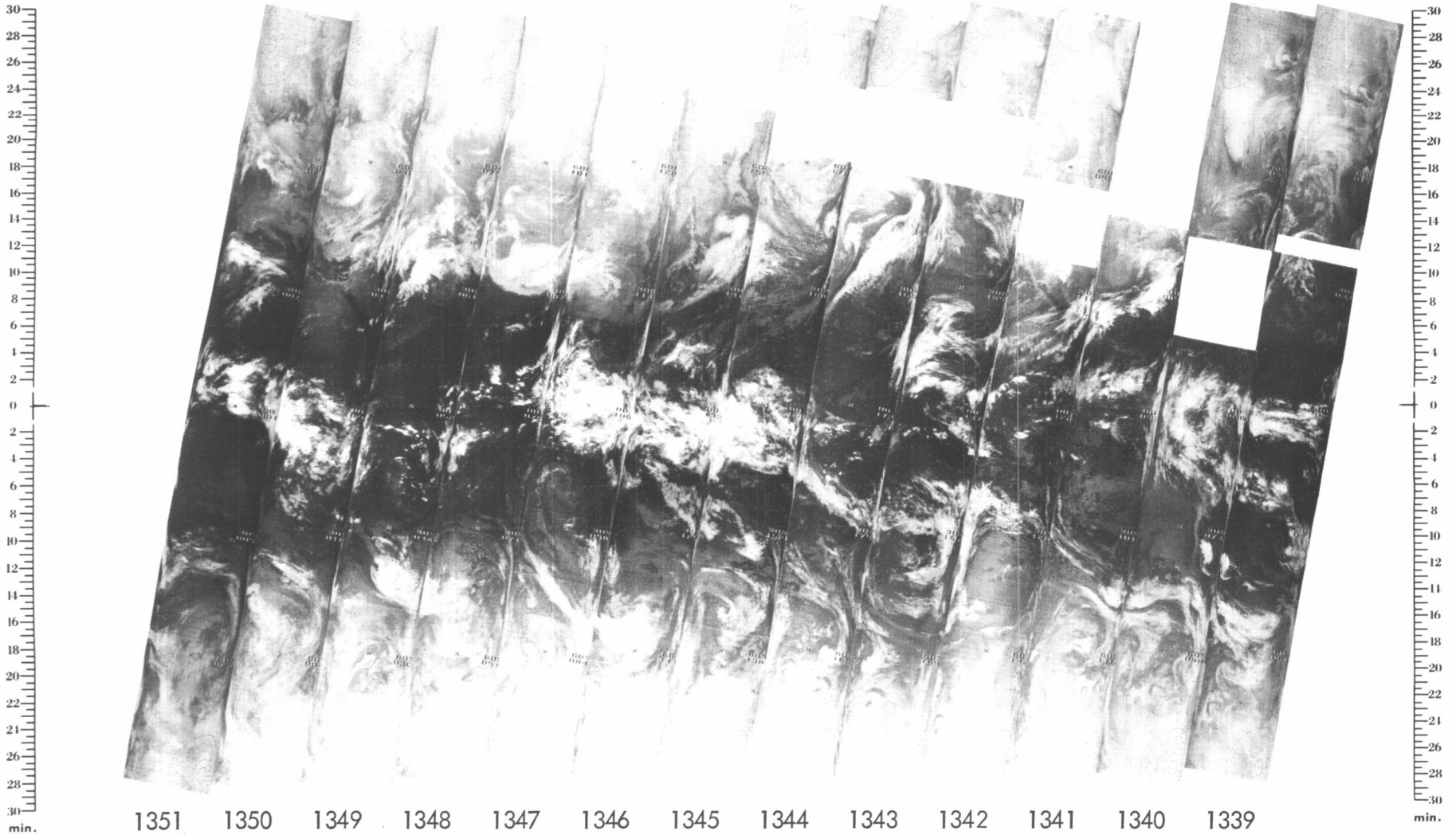
6.7 μm

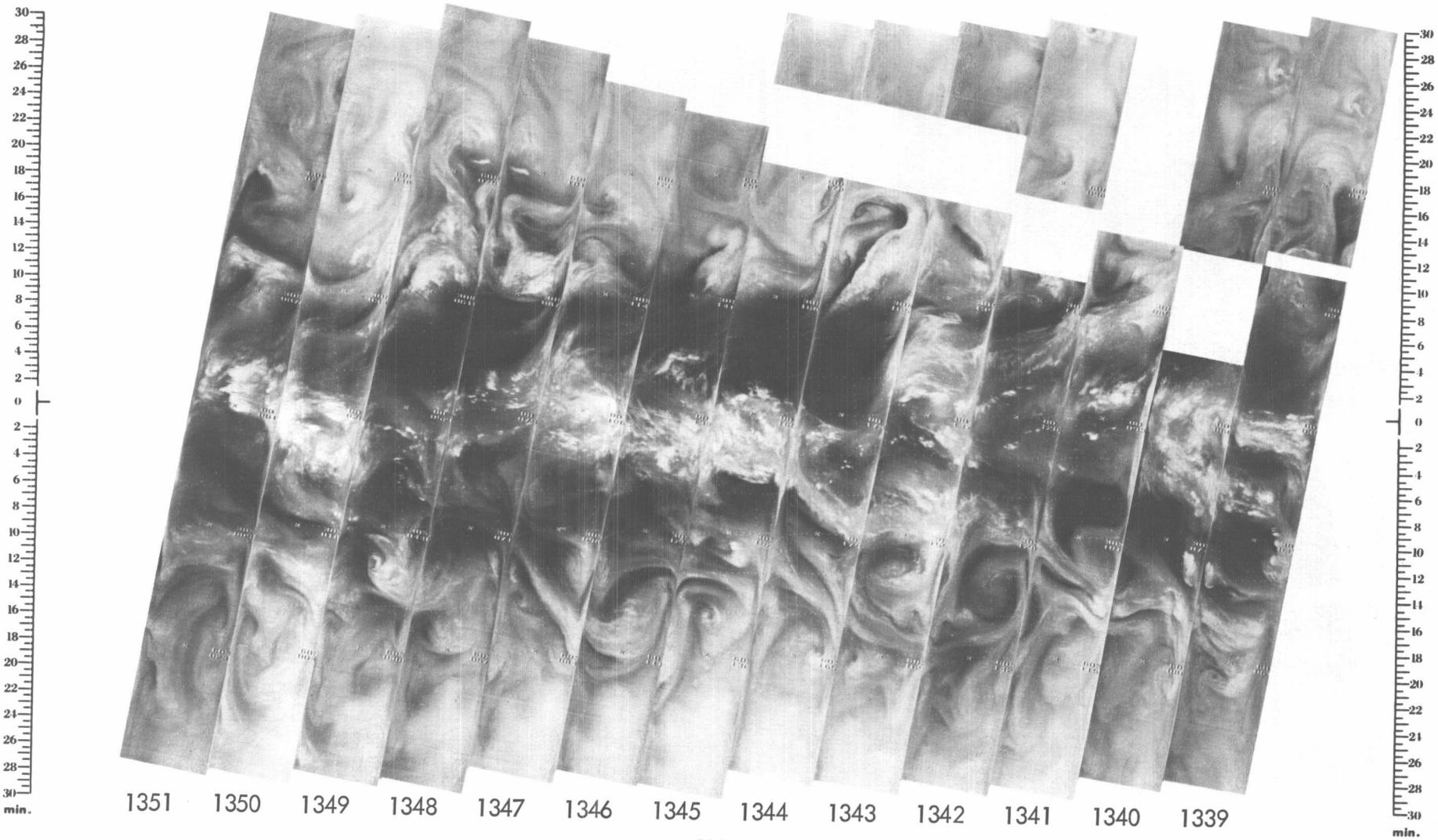
1338
1337
1336
1335
1334
1333
1332
1331
1330
1329
1328
1327
1326
1325
20 MARCH 1973
11.5 μm




20 MARCH 1973

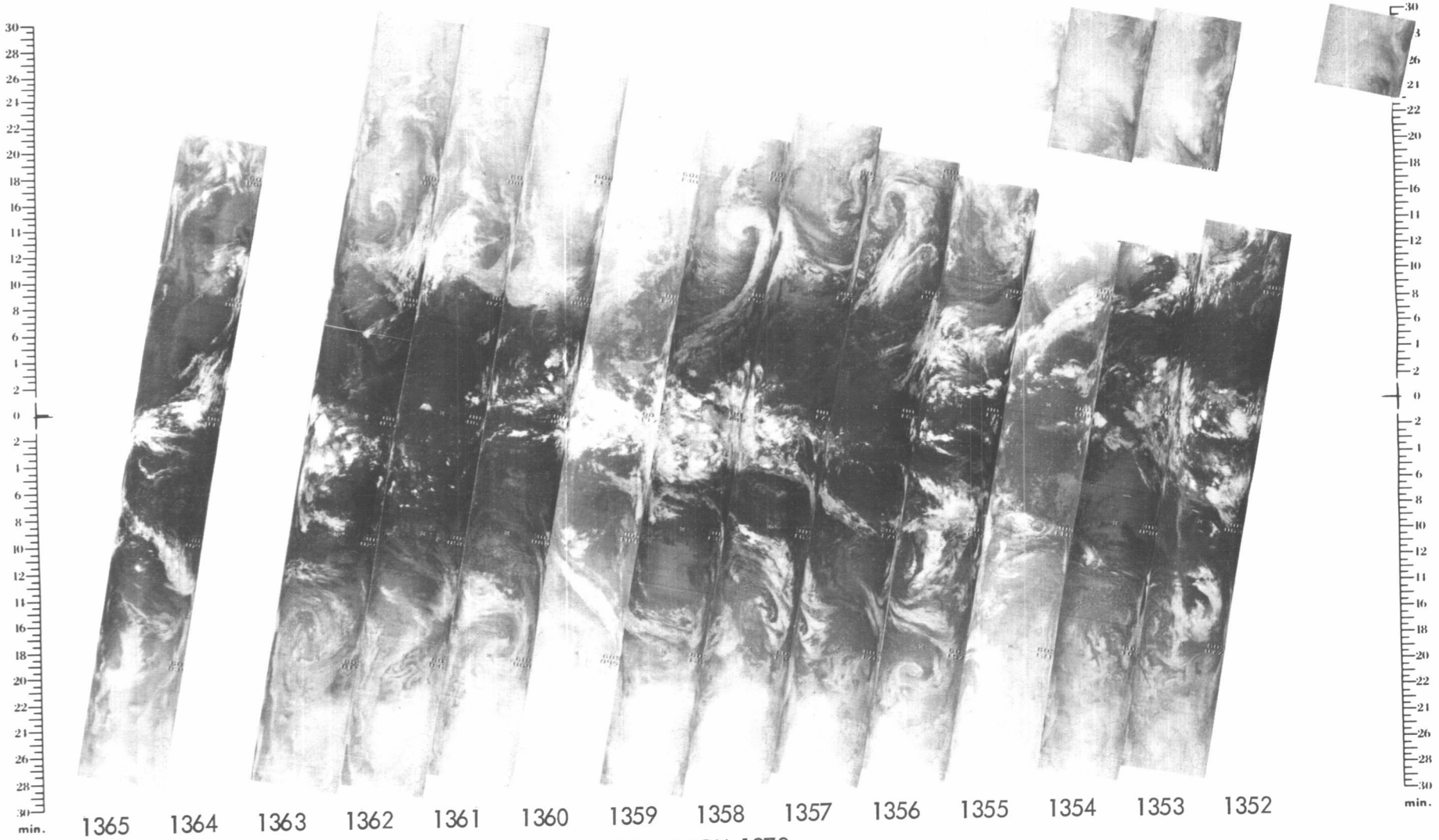
6.7 μm


1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339
21 MARCH 1973
11.5 μm
min.
min.



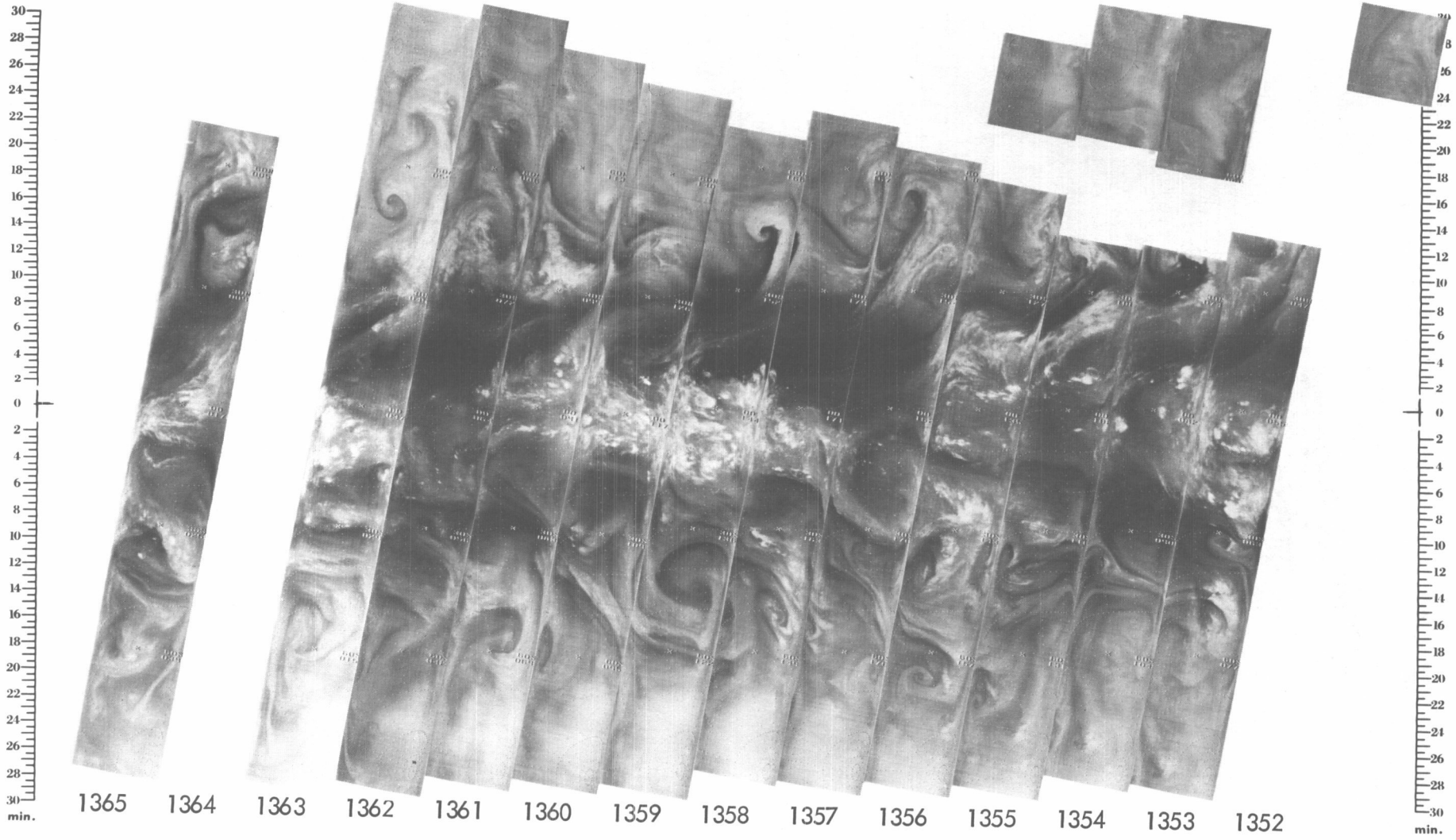

21 MARCH 1973

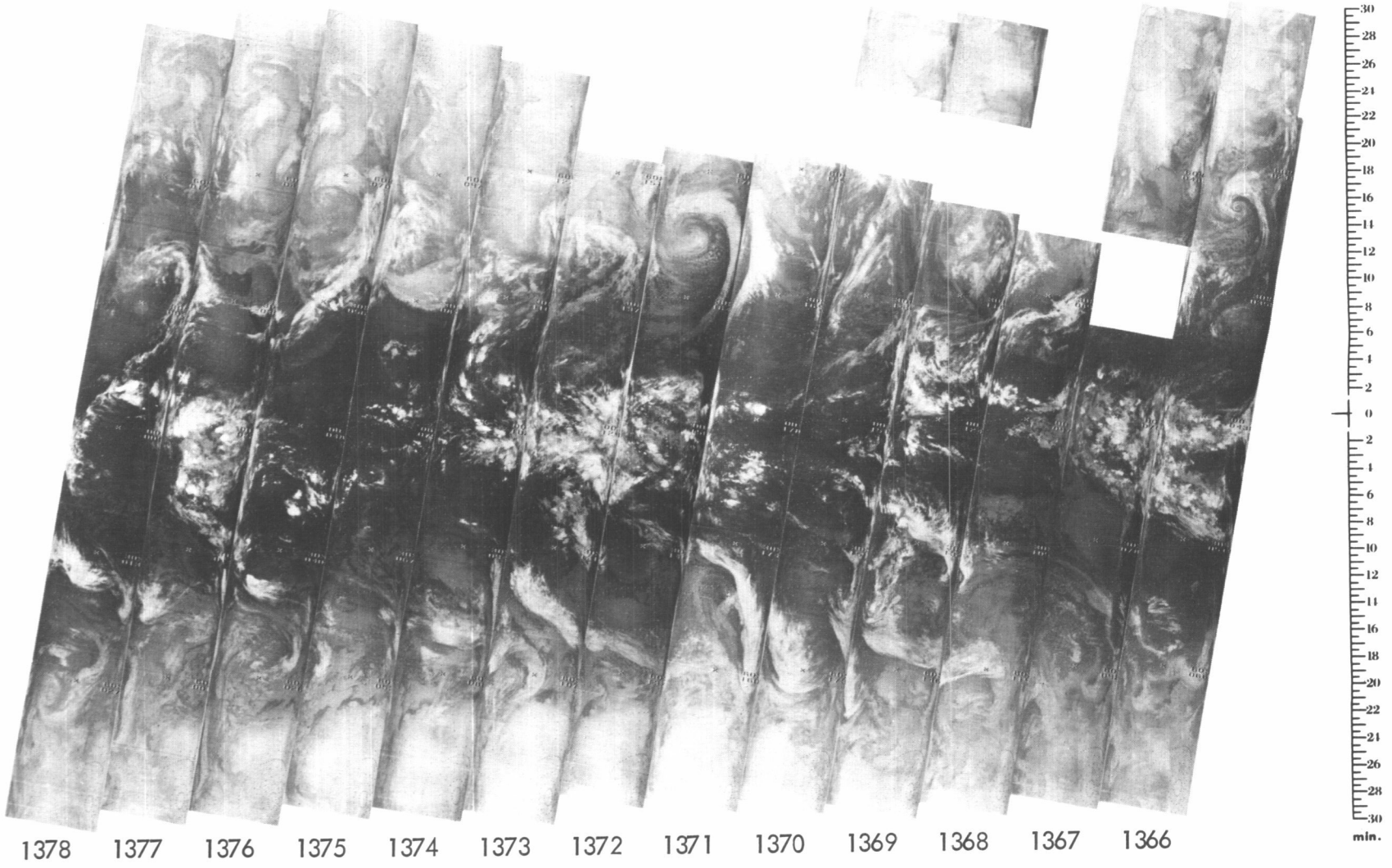
6.7 μm



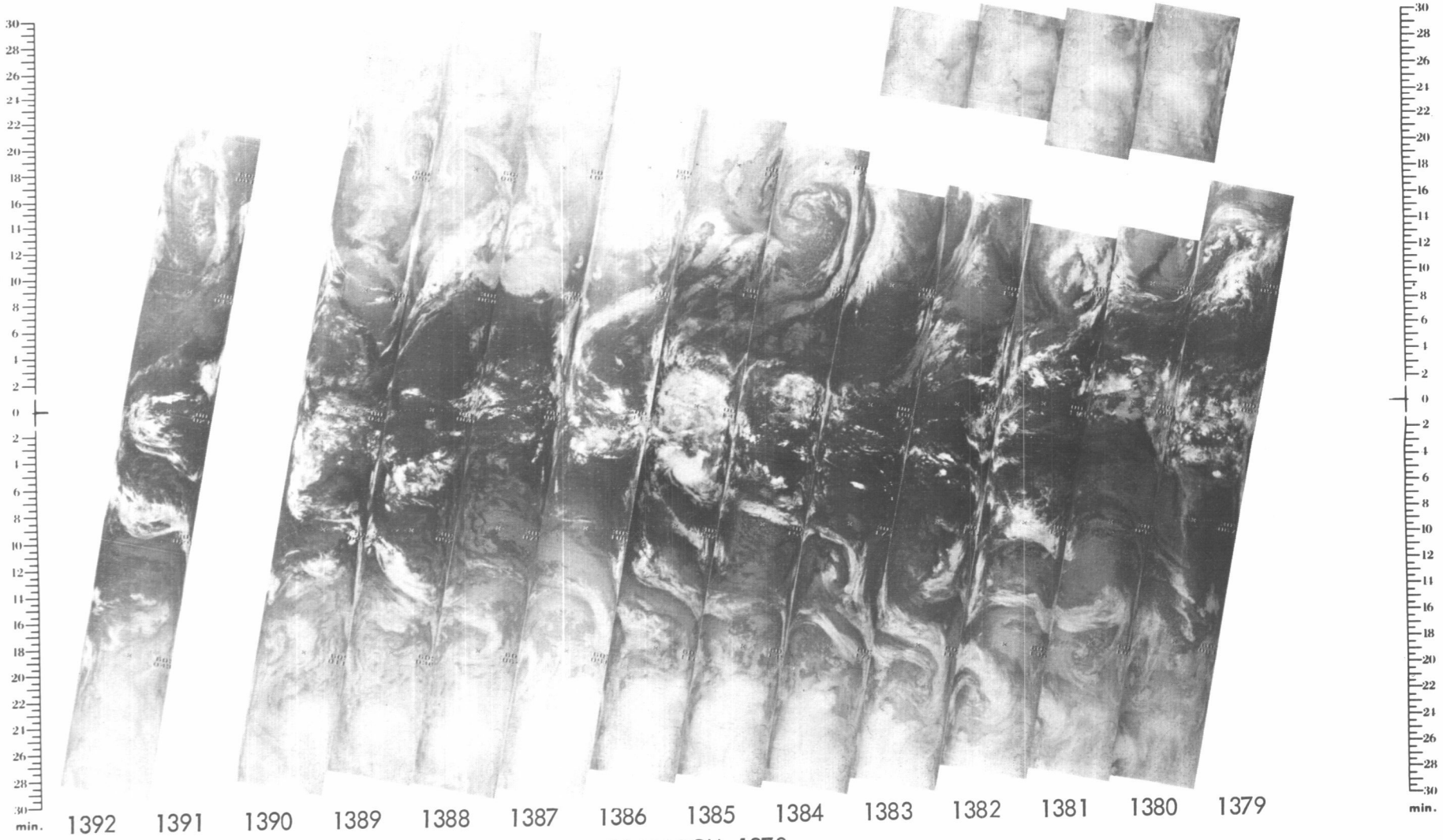

22 MARCH 1973

11.5 μm


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352
22 MARCH 1973
6.7 μm

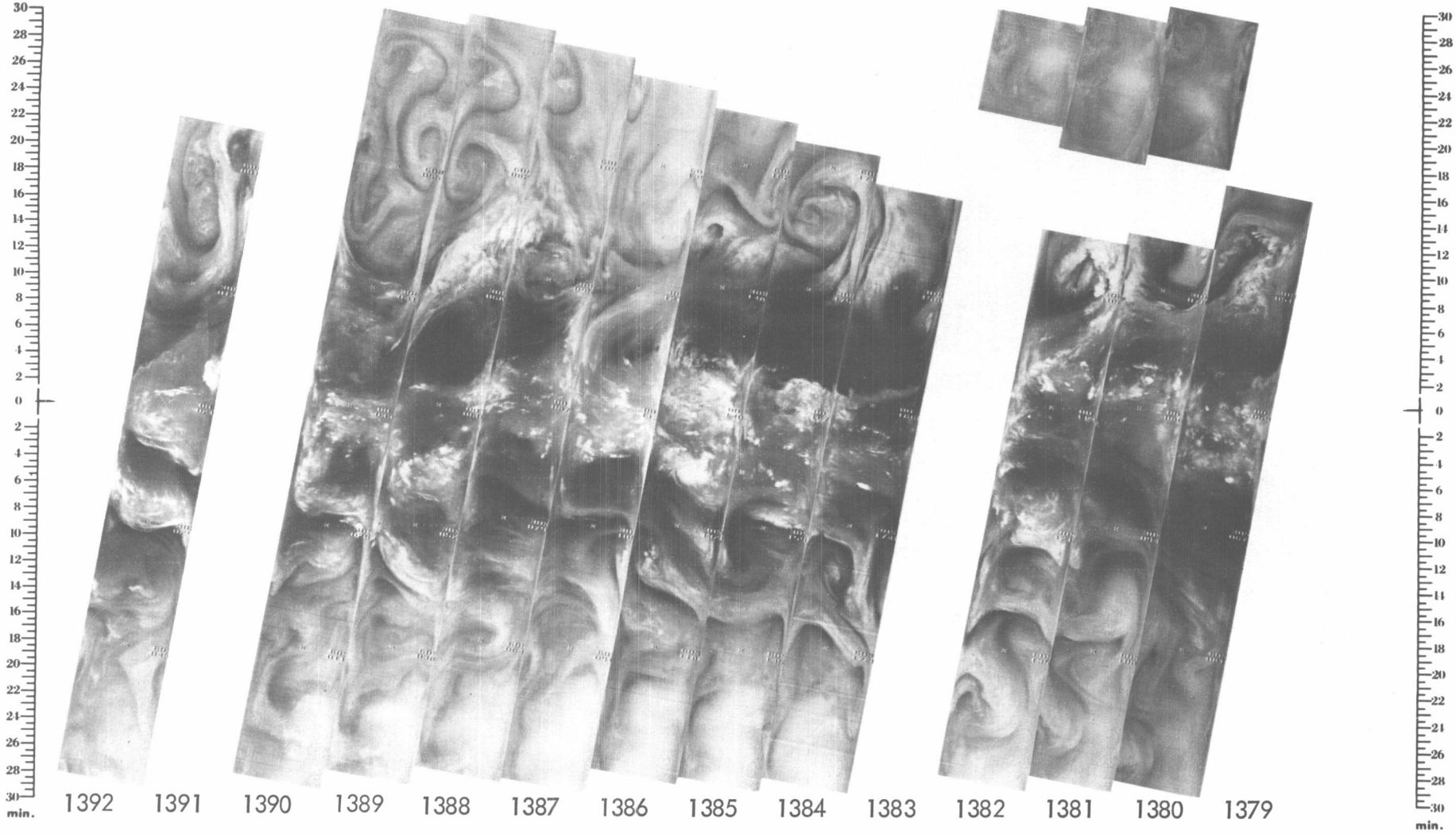

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366
23 MARCH 1973
11.5 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1366
1367
1368
1369
1370
1371
1372
1373
1374
1375
1376
1377
1378
23 MARCH 1973
6.7 μm




24 MARCH 1973

11.5 μm



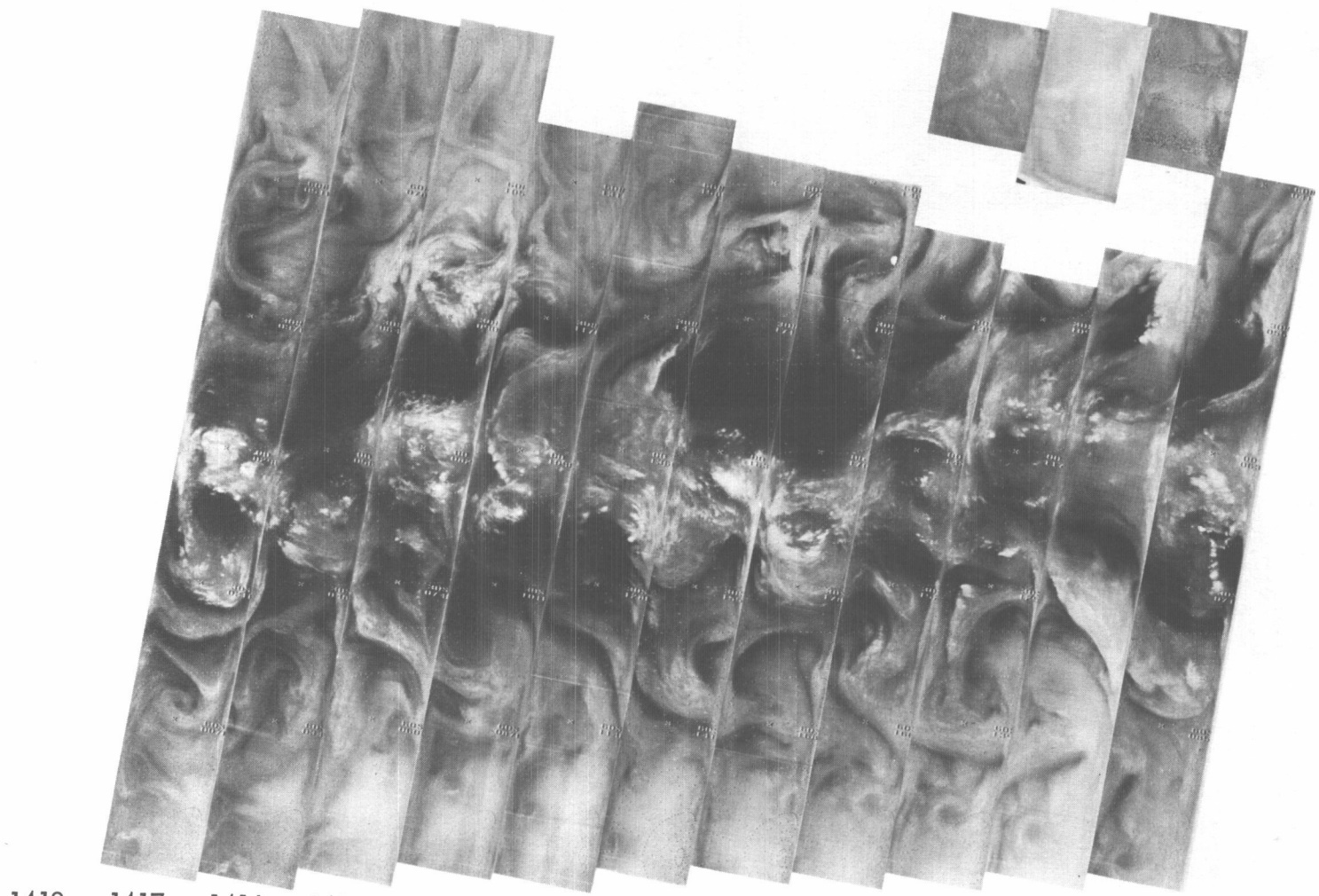

24 MARCH 1973

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393
25 MARCH 1973
11.5 μm

1405
1404
1403
1402
1401
1400
1399
1398
1397
1396
1395
1394
1393
25 MARCH 1973
6.7 μm
min.

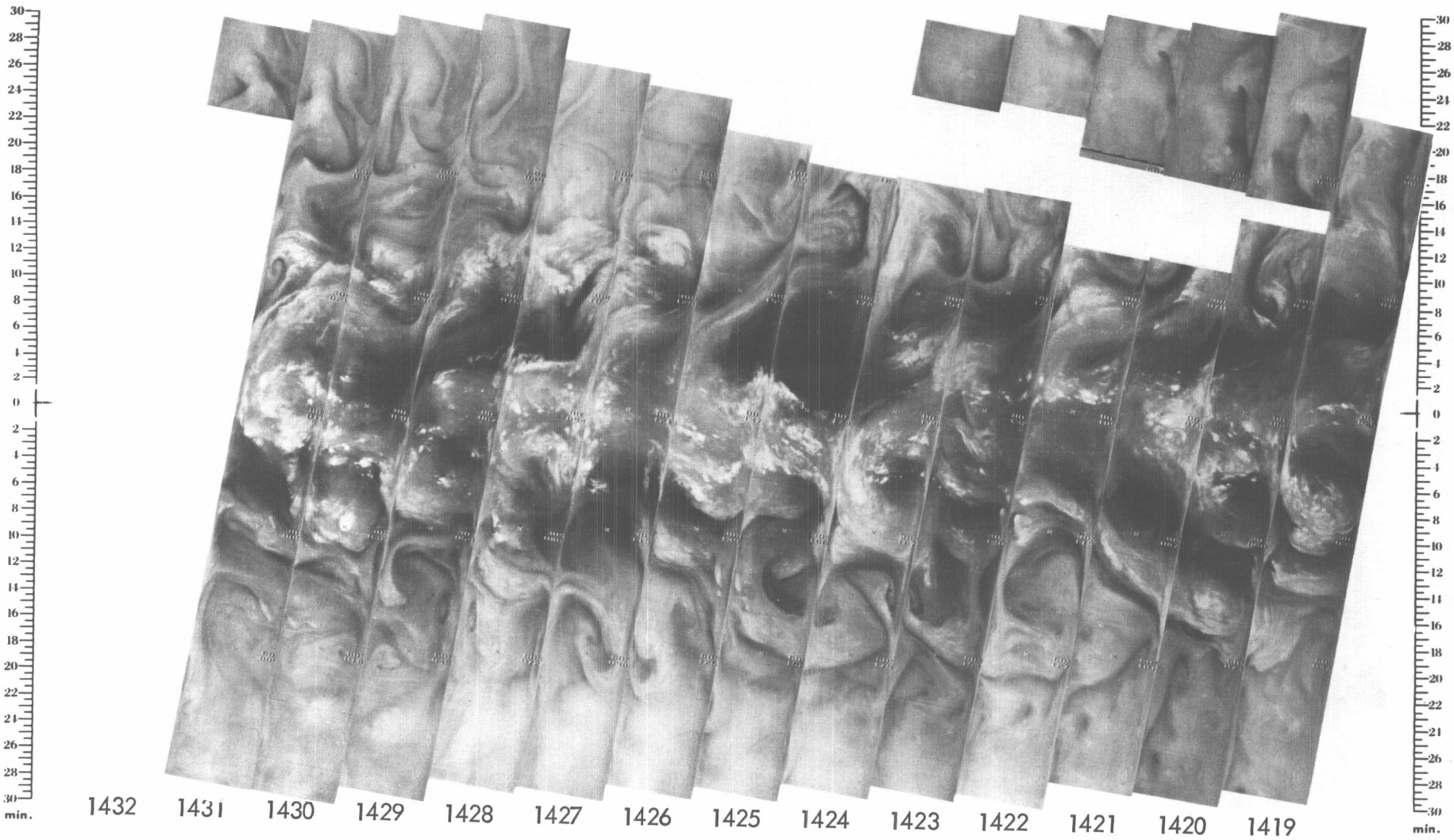
1406
1407
1408
1409
1410
1411
1412
1413
1414
1415
1416
1417
1418
26 MARCH 1973
11.5 μm
min.




26 MARCH 1973

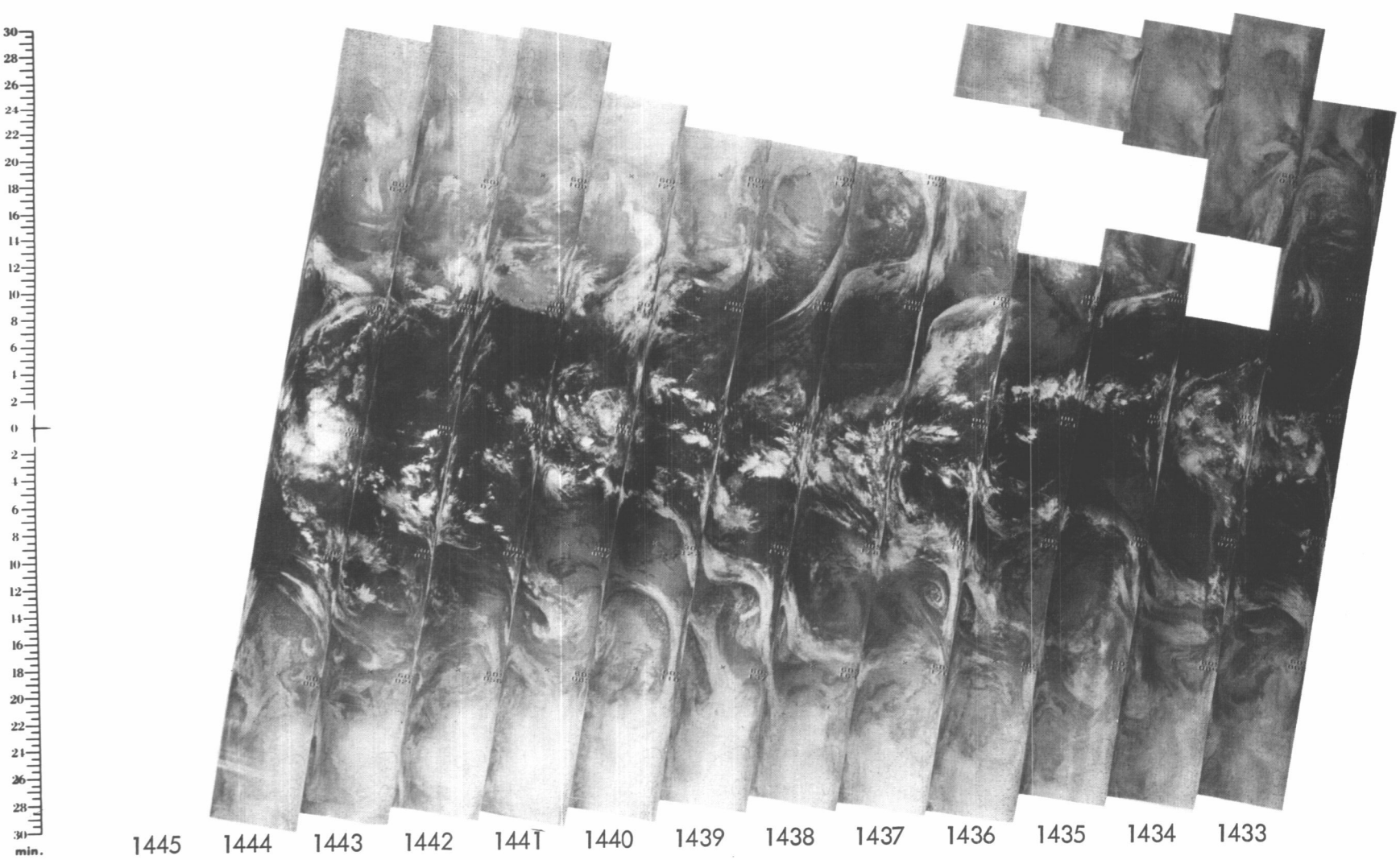
6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1419
1420
1421
1422
1423
1424
1425
1426
27 MARCH 1973
1427
1428
1429
1430
1431
1432
11.5 μm




27 MARCH 1973

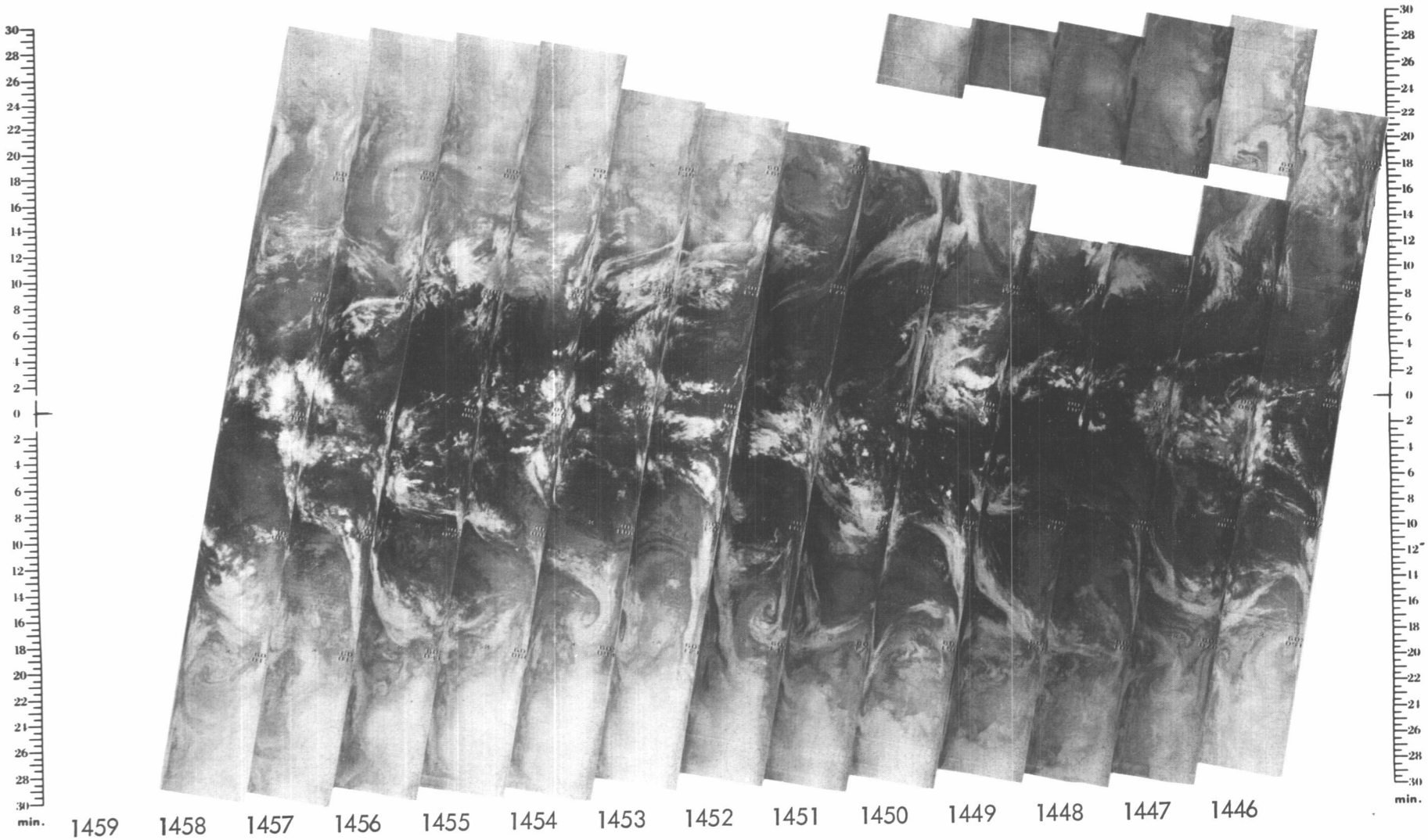
6.7 μm

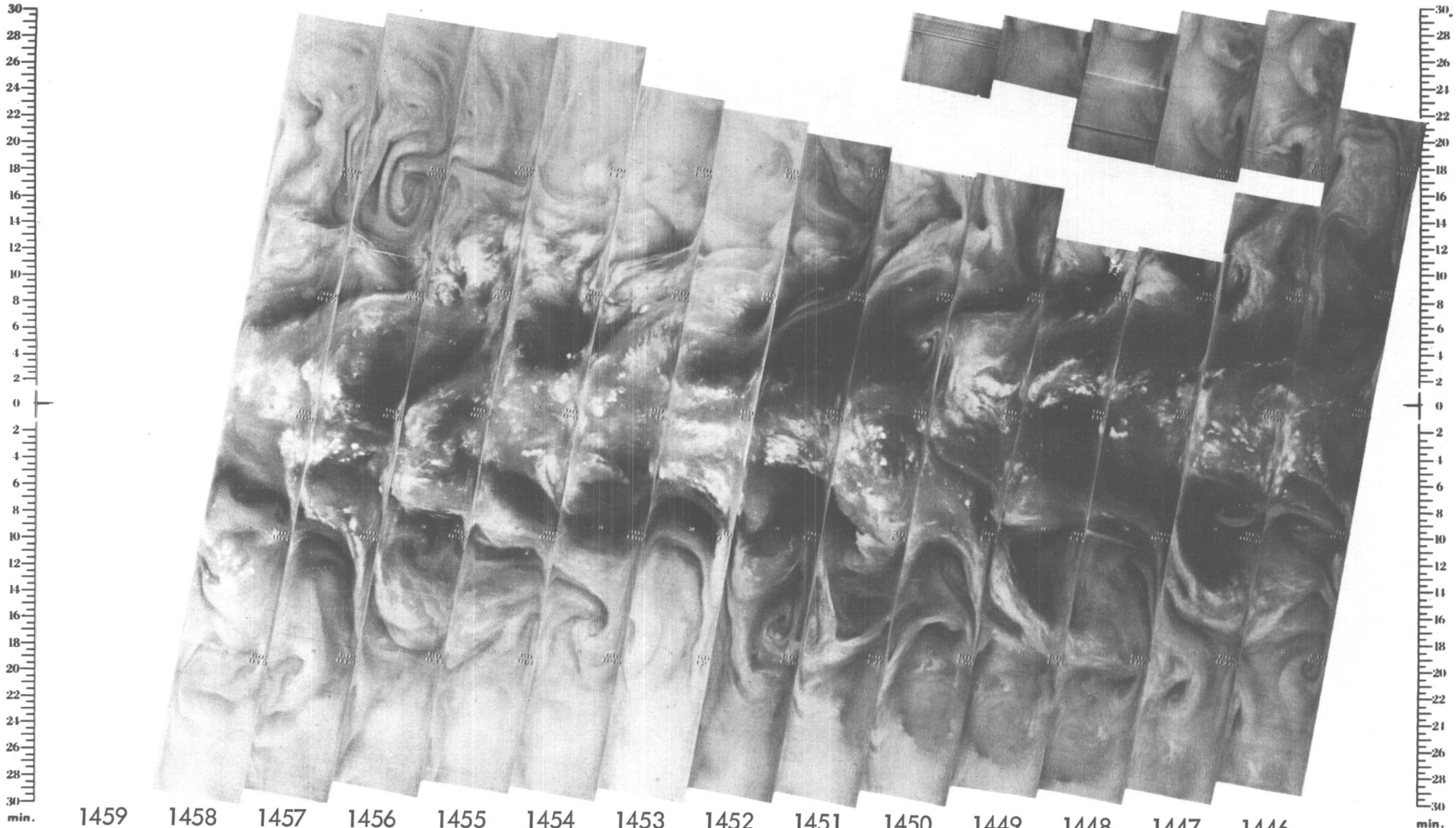



28 MARCH 1973

11.5 μm

1433
1434
1435
1436
1437
1438
1439
1440
1441
1442
1443
1444
1445
28 MARCH 1973
6.7 μm
min.

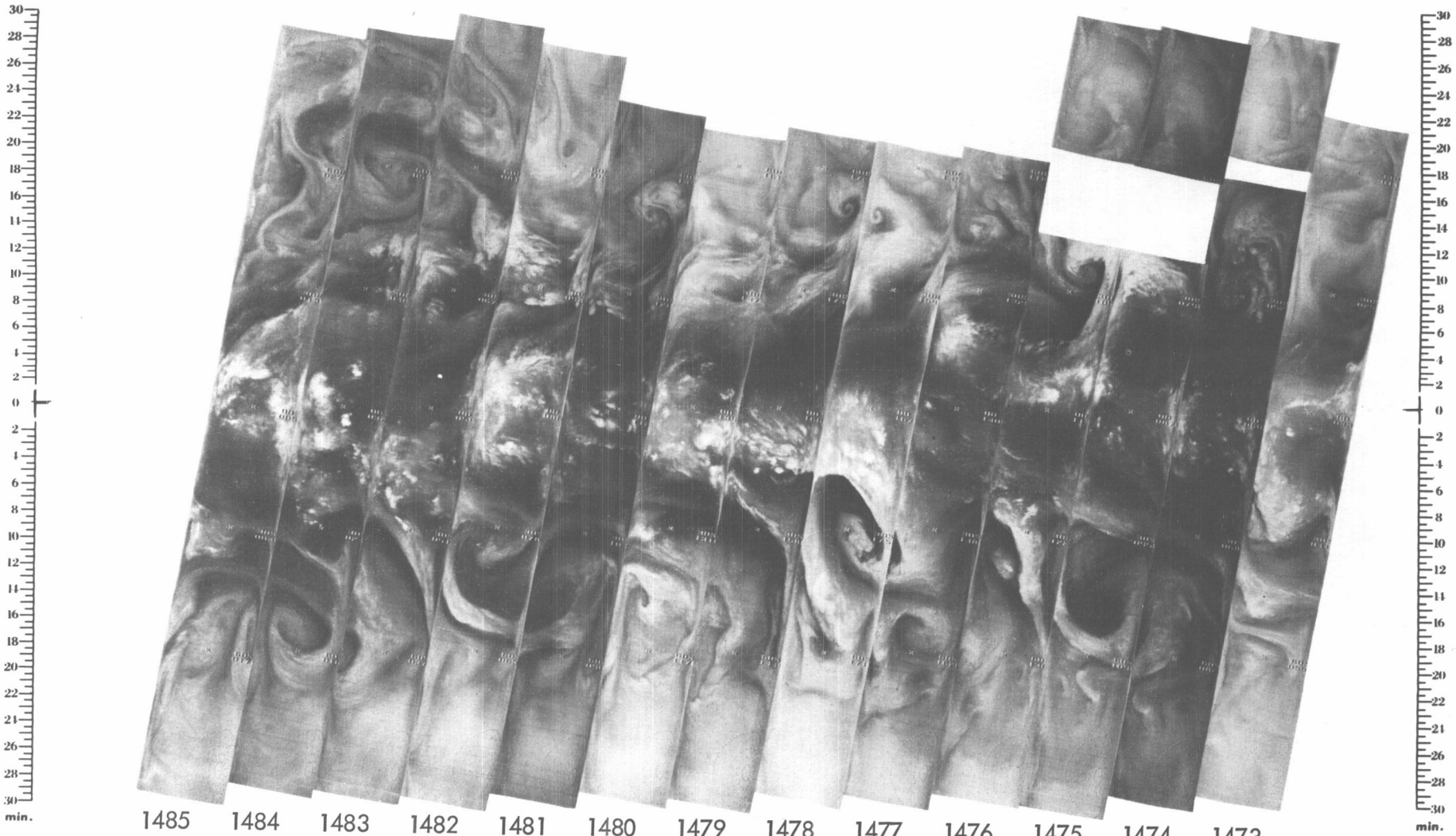

min.
1459
1458
1457
1456
1455
1454
1453
1452
1451
1450
1449
1448
1447
1446
29 MARCH 1973
11.5 μm


min.
1459
1458
1457
1456
1455
1454
1453
1452
1451
1450
1449
1448
1447
1446
29 MARCH 1973
6.7 μm

1460
1461
1462
1463
1464
1465
1466
1467
1468
1469
1470
1471
1472
30 MARCH 1973
11.5 μm
min.

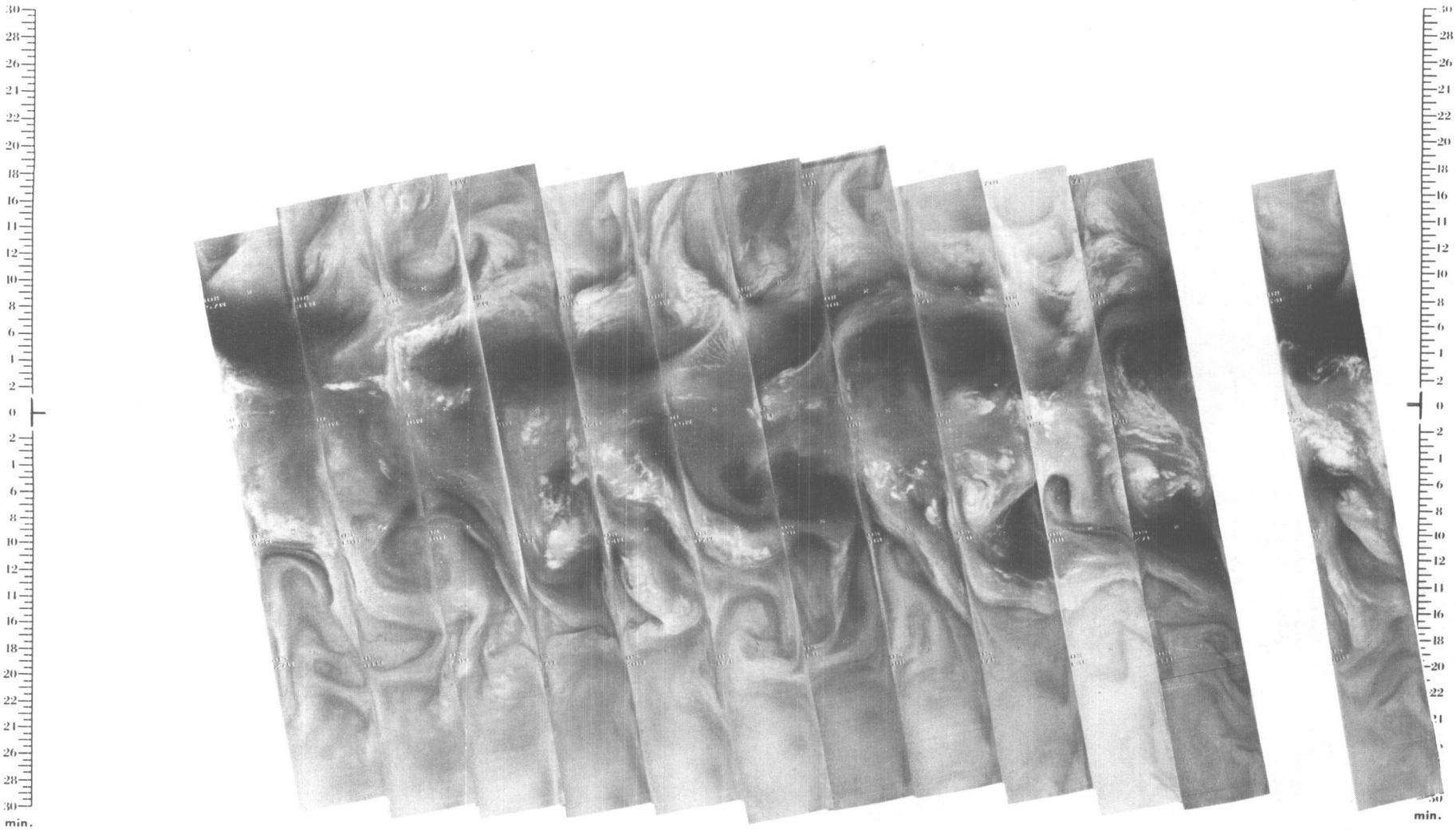
1472
1471
1470
1469
1468
1467
1466
1465
1464
1463
1462
1461
1460
30 MARCH 1973
6.7 μm
min.

1473
1474
1475
1476
1477
1478
1479
1480
1481
1482
1483
1484
1485
31 MARCH 1973
11.5 μm
min.


1485
1484
1483
1482
1481
1480
1479
1478
1477
1476
1475
1474
1473
31 MARCH 1973
6.7 μm
min.
min.

# SECTION 4.2
# TEMPERATURE HUMIDITY INFRARED RADIOMETER
# DAYTIME MONTAGES

694
695
696
697
698
699
700
701
702
703
704
705
706
707
1 FEBRUARY 1973
11.5 µm
min.

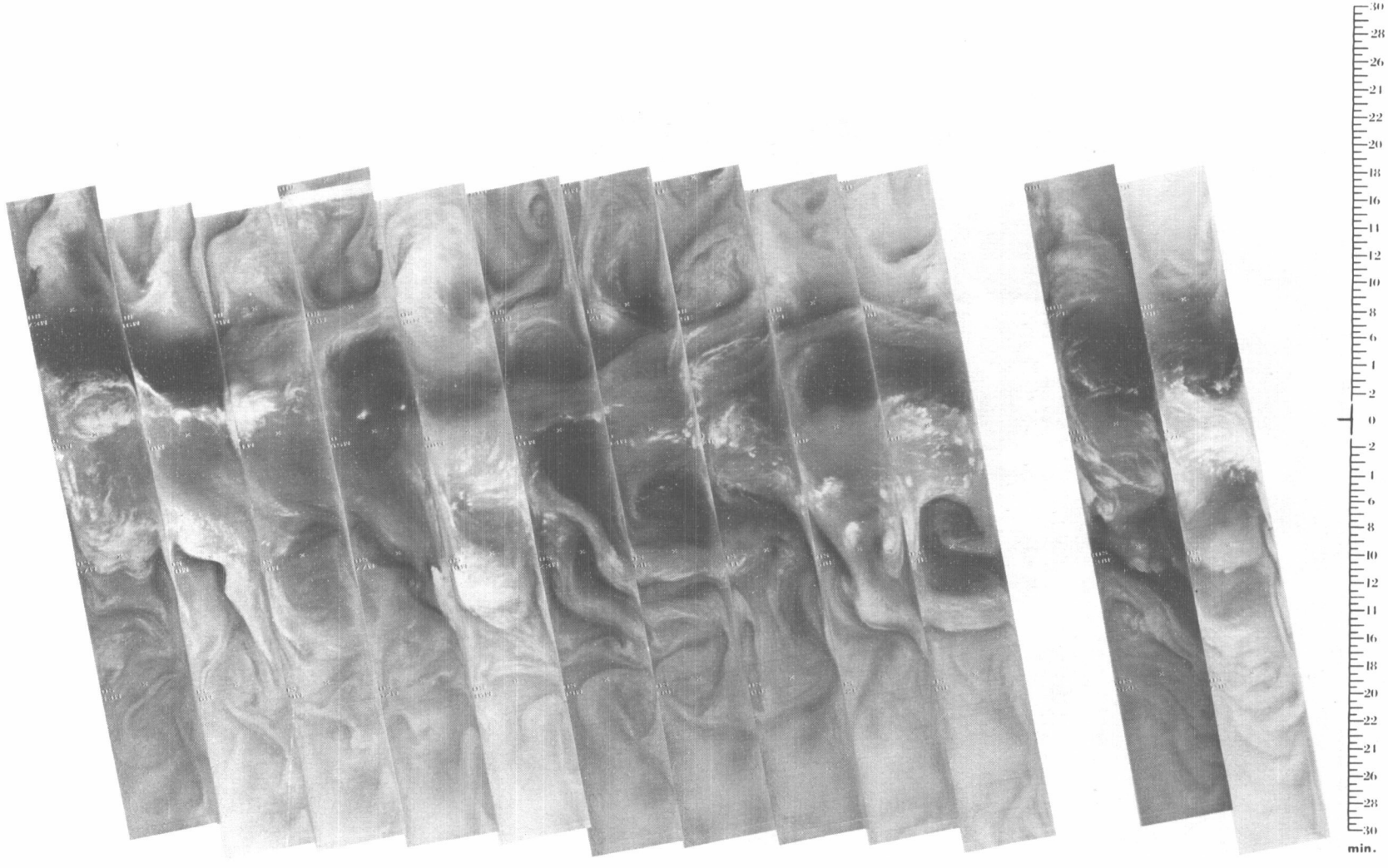



707 706 705 704 703 702 701 700 699 698 697 696 695 694

1 FEBRUARY 1973

6.7 μm


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
720 719 718 717 716 715 714 713 712 711 710 709 708
2 FEBRUARY 1973
11.5 μm




720 719 718 717 716 715 714 713 712 711 710 709 708

2 FEBRUARY 1973

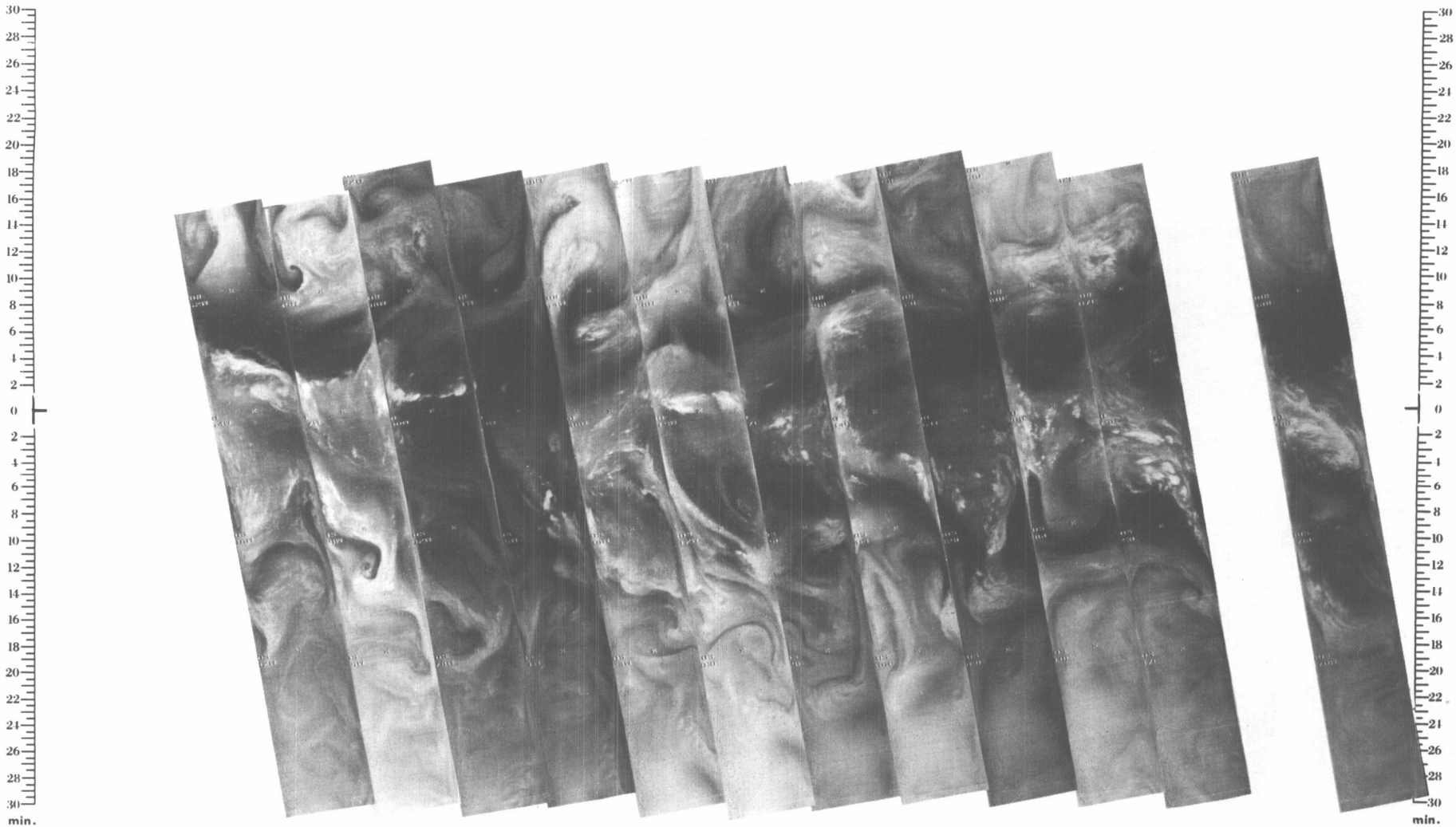
6.7 μm




734 733 732 731 730 729 728 727 726 725 724 723 722 721

3 FEBRUARY 1973

11.5 μm




734 733 732 731 730 729 728 727 726 725 724 723 722 721

3 FEBRUARY 1973

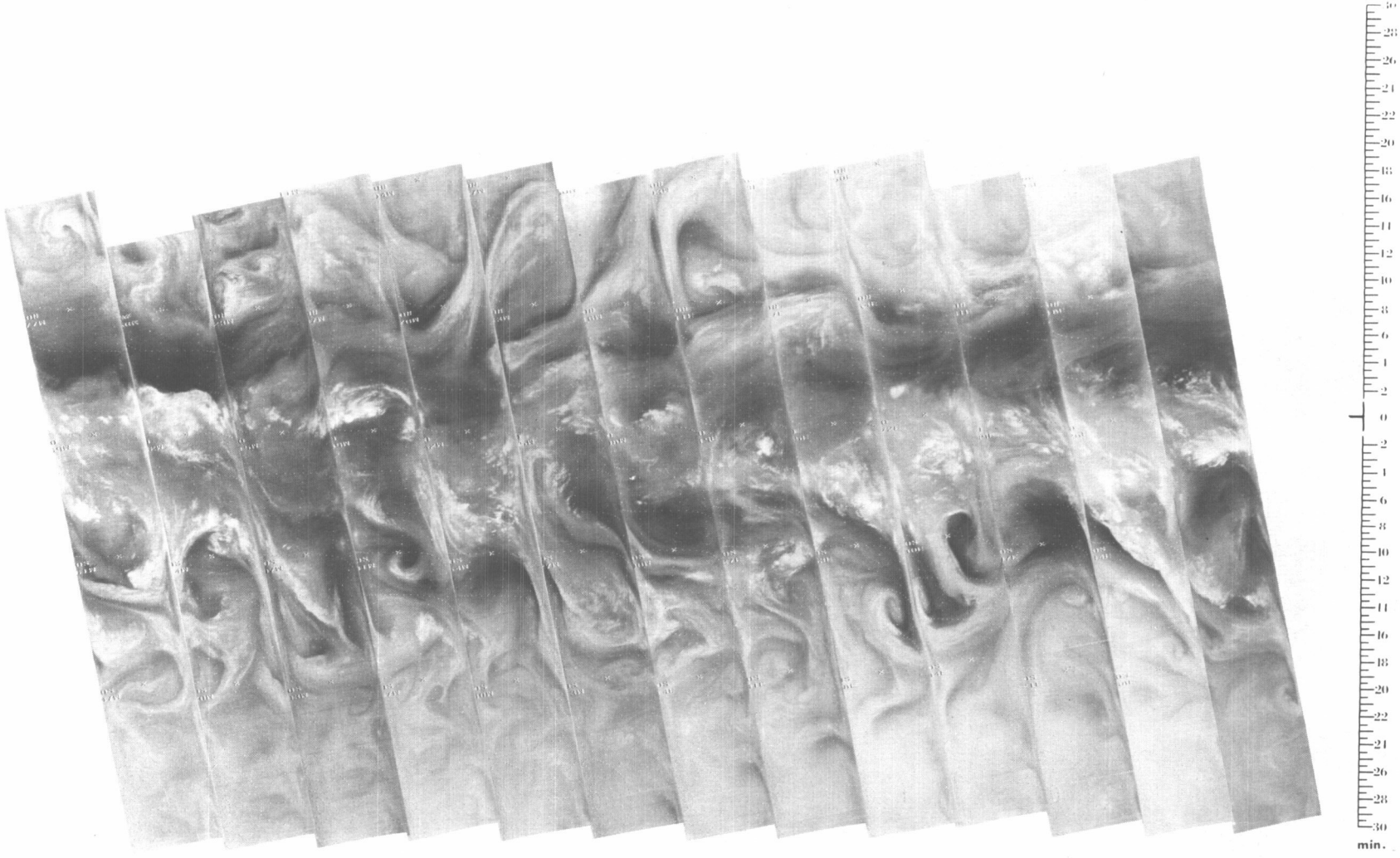
6.7 μm




747 746 745 744 743 742 741 740 739 738 737 736 735

4 FEBRUARY 1973

11.5 μm




747 746 745 744 743 742 741 740 739 738 737 736 735

4 FEBRUARY 1973

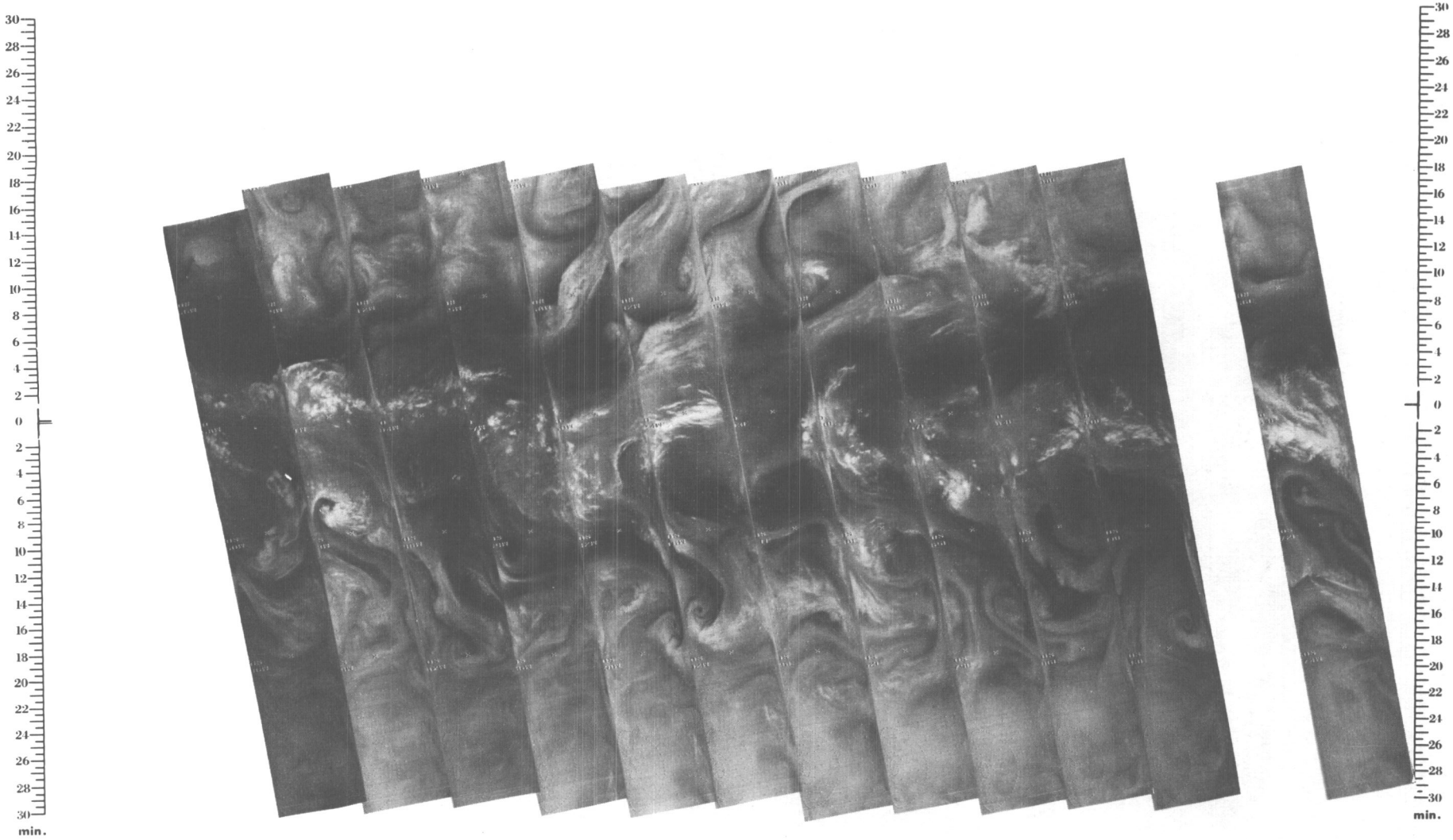
6.7 μm




761 760 759 758 757 756 755 754 753 752 751 750 749 748

5 FEBRUARY 1973

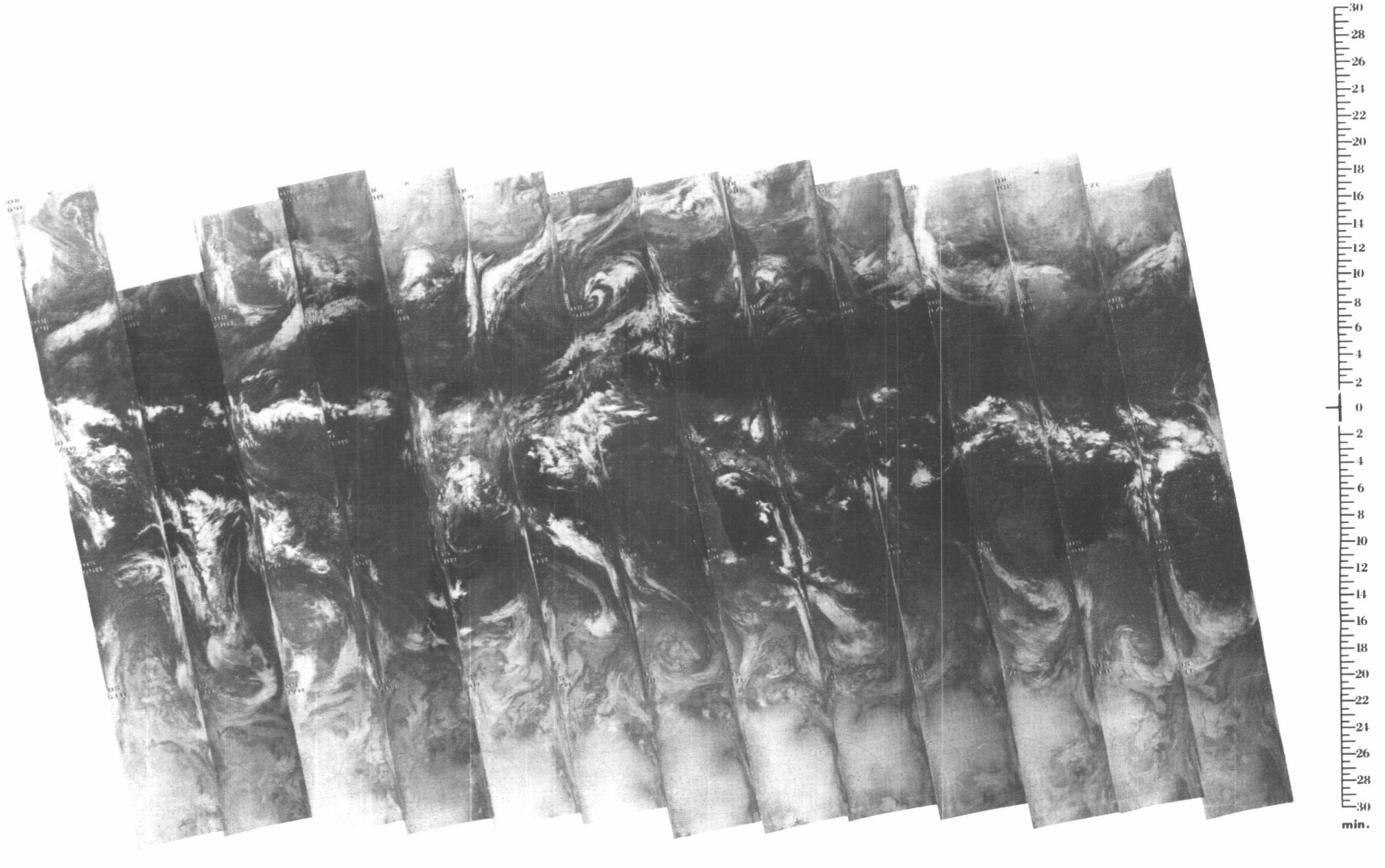
11.5 μm




761 760 759 758 757 756 755 754 753 752 751 750 749 748

5 FEBRUARY 1973

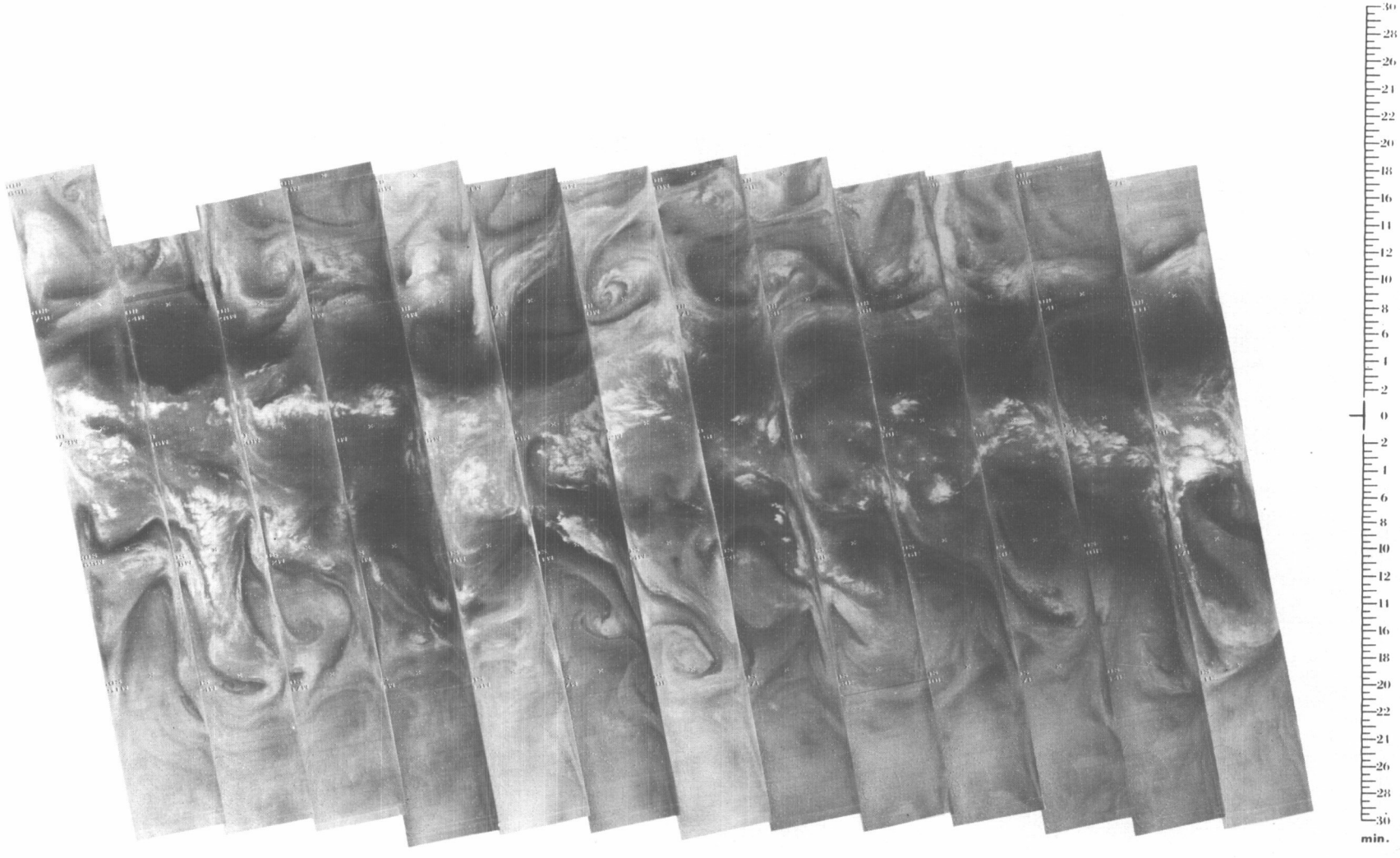
6.7 μm

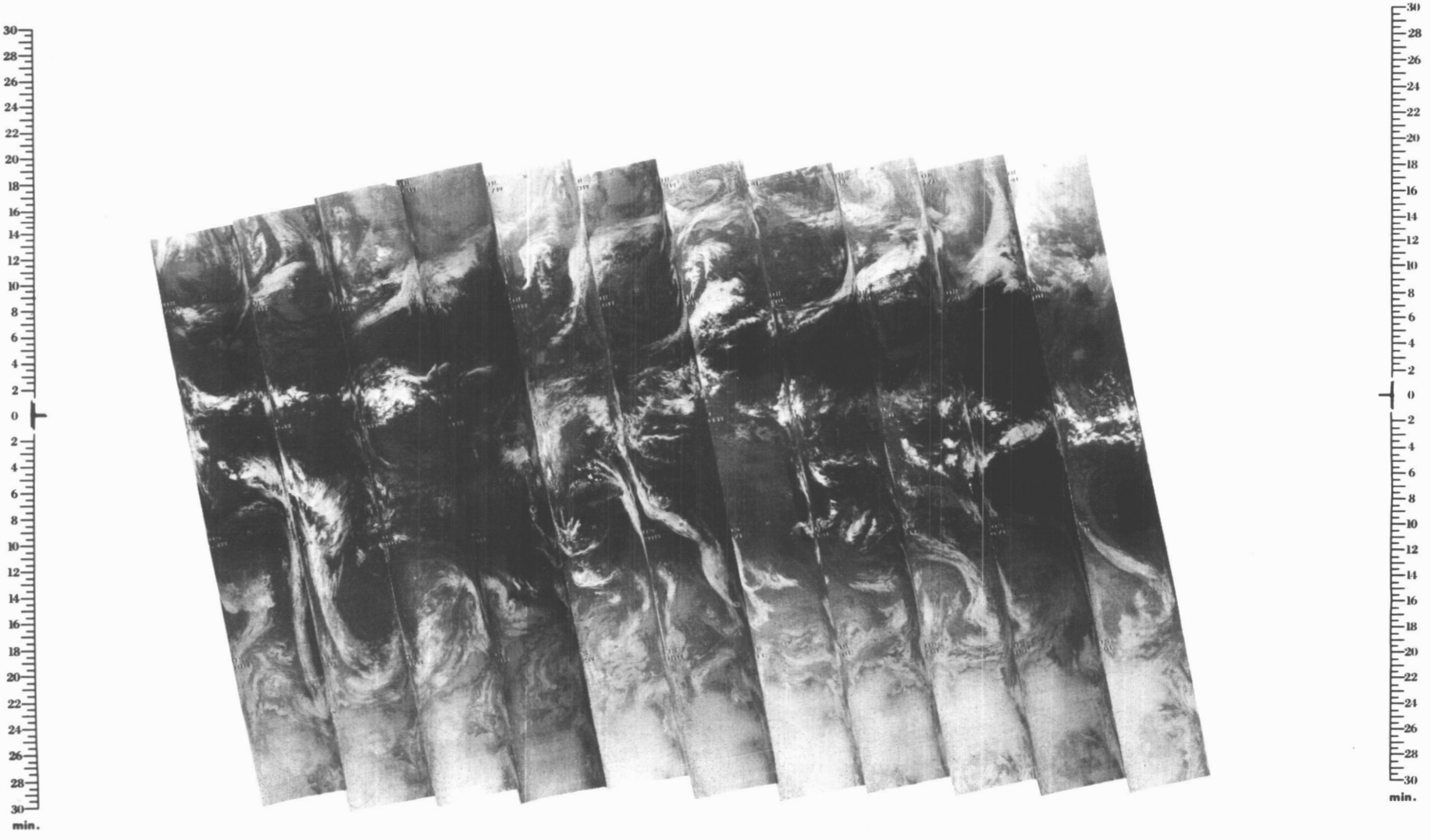



774 773 772 771 770 769 768 767 766 765 764 763 762

6 FEBRUARY 1973

11.5 μm

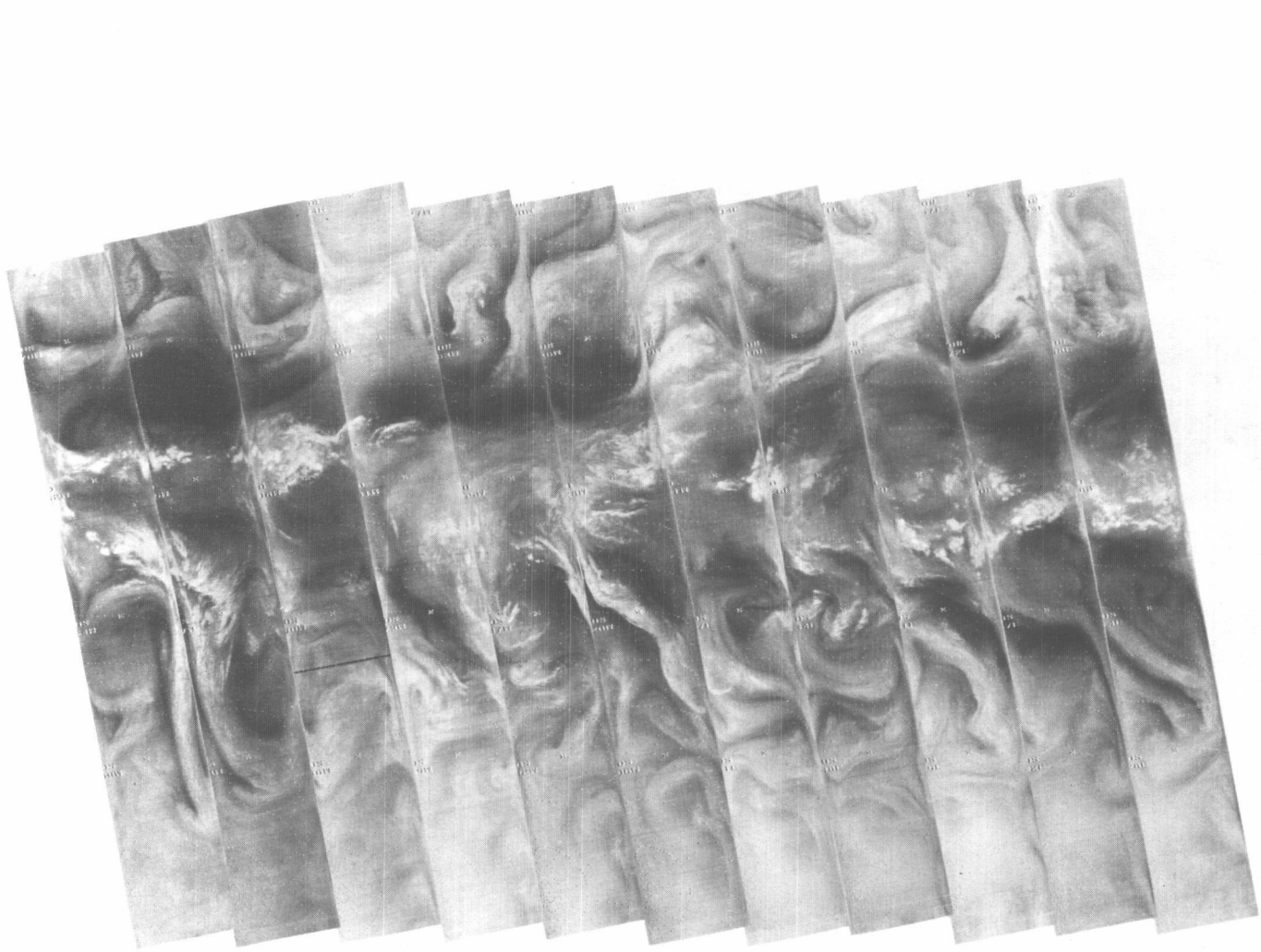

774 773 772 771 770 769 768 767 766 765 764 763 762
6 FEBRUARY 1973
6.7 μm
min.
min.




787 786 785 784 783 782 781 780 779 778 777 776 775

7 FEBRUARY 1973

11.5 μm



787 786 785 784 783 782 781 780 779 778 777 776 775

7 FEBRUARY 1973

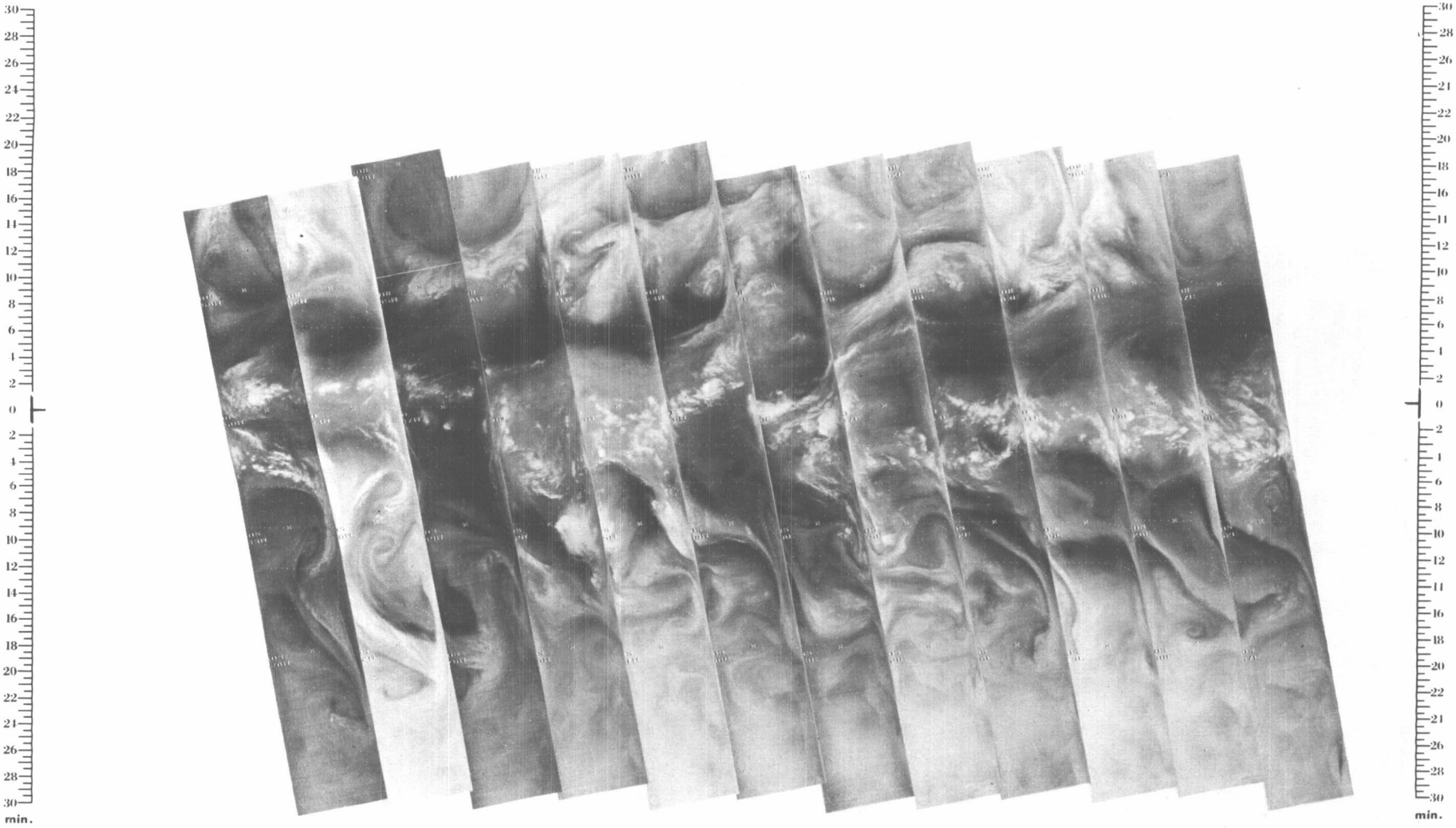
6.7 μm




801 800 799 798 797 796 795 794 793 792 791 790 789 788

8 FEBRUARY 1973

11.5 μm

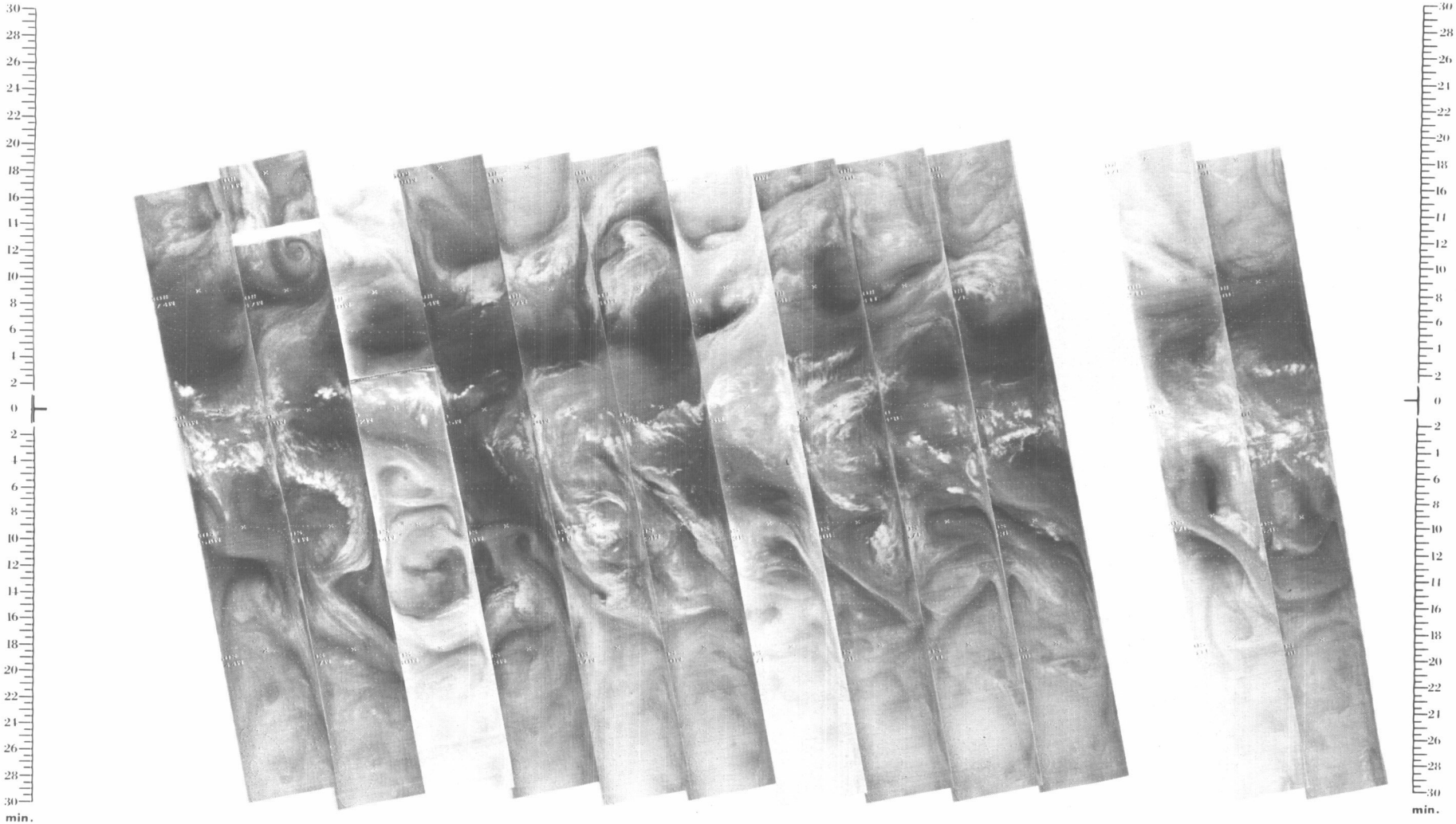



801 800 799 798 797 796 795 794 793 792 791 790 789 788

8 FEBRUARY 1973

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
802 803 804 805 806 807 808 809 810 811 812 813 814
9 FEBRUARY 1973
11.5 μm




814 813 812 811 810 809 808 807 806 805 804 803 802

9 FEBRUARY 1973

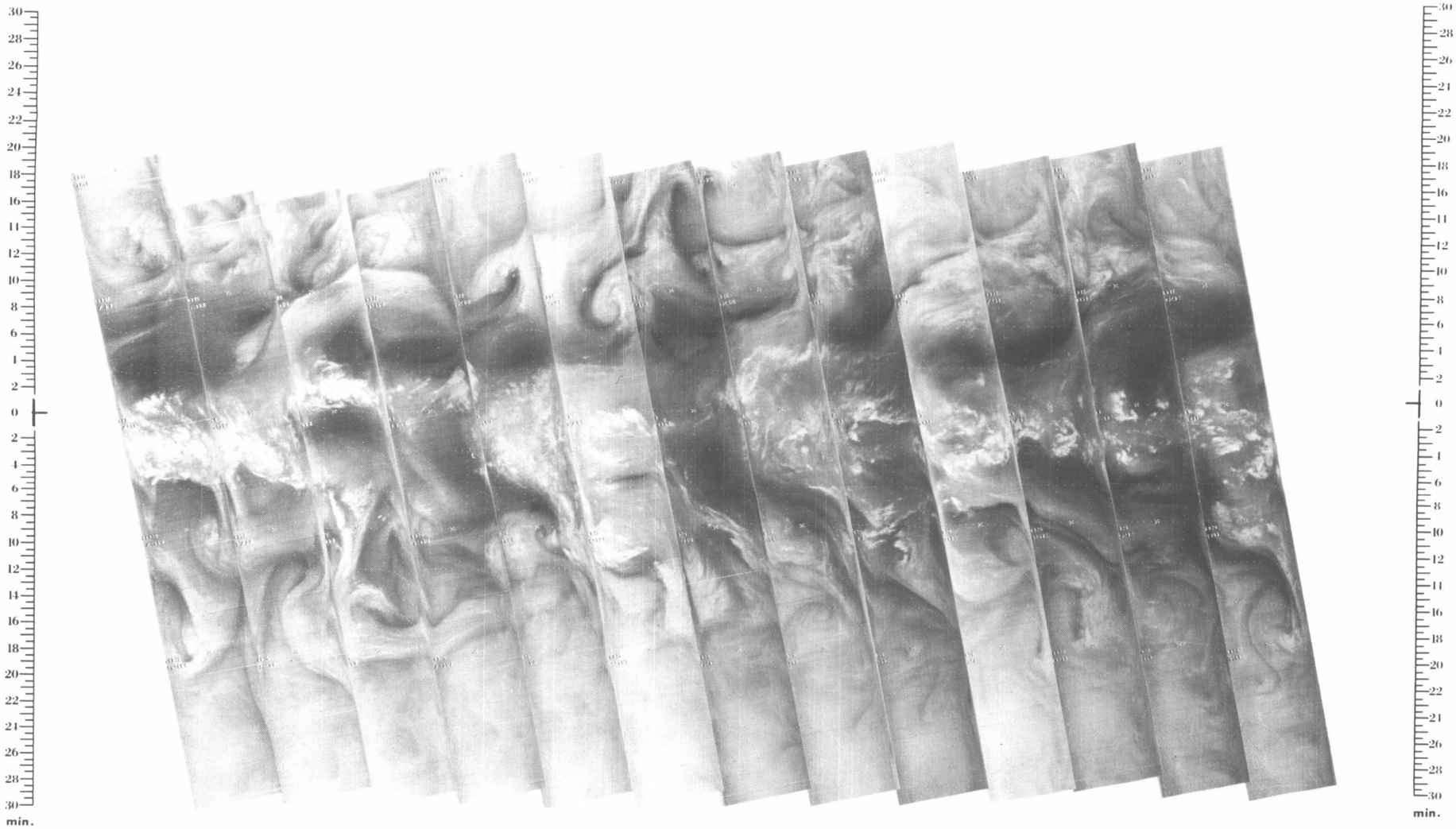
6.7 μm




828 827 826 825 824 823 822 821 820 819 818 817 816 815

10 FEBRUARY 1973

11.5 μm




828 827 826 825 824 823 822 821 820 819 818 817 816 815

10 FEBRUARY 1973

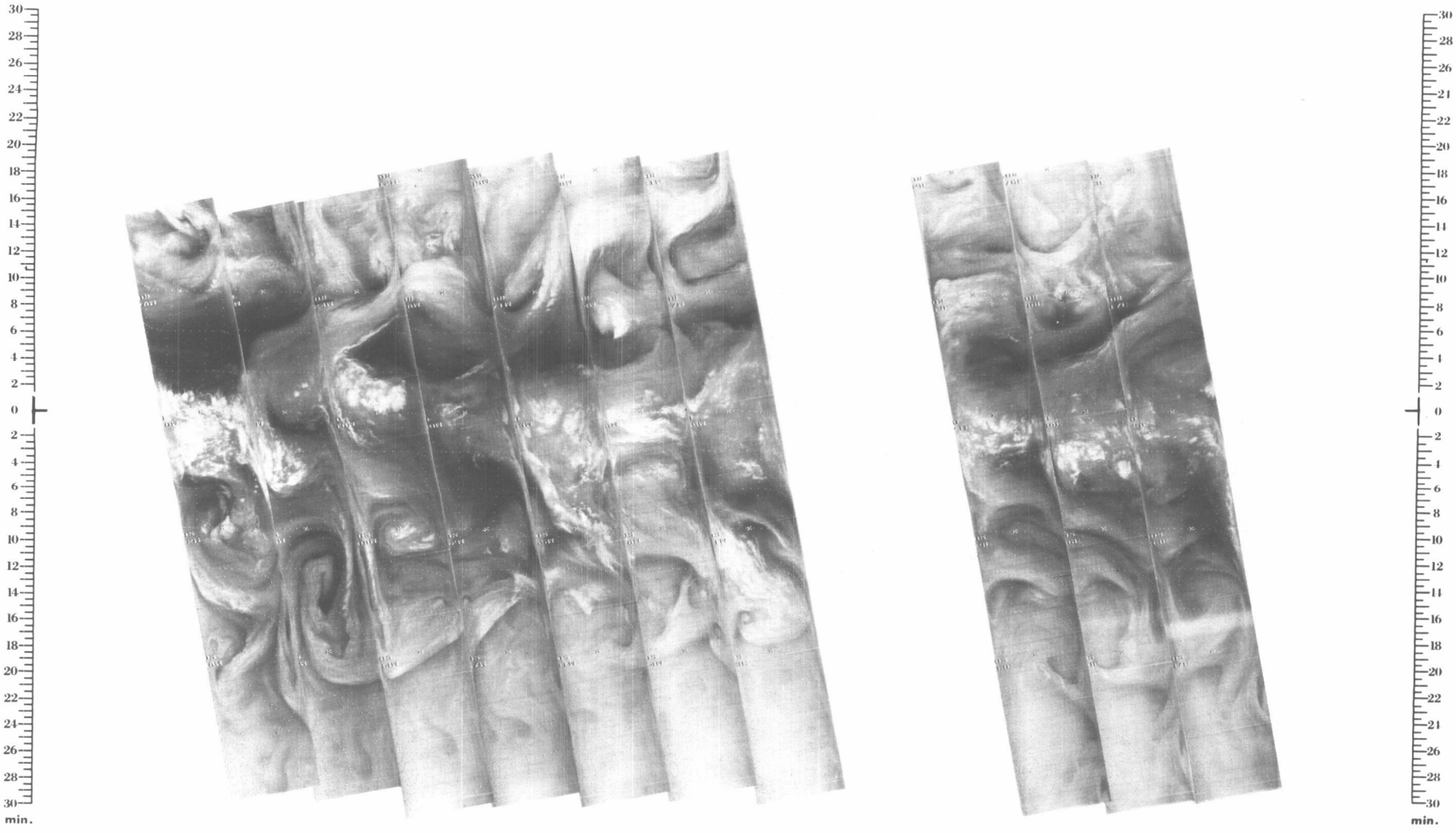
6.7 μm




841 840 839 838 837 836 835 834 833 832 831 830 829

11 FEBRUARY 1973

11.5 μm




841 840 839 838 837 836 835 834 833 832 831 830 829

11 FEBRUARY 1973

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
842 843 844 845 846 847 848 849 850 851 852 853 854 855
12 FEBRUARY 1973
11.5 μm

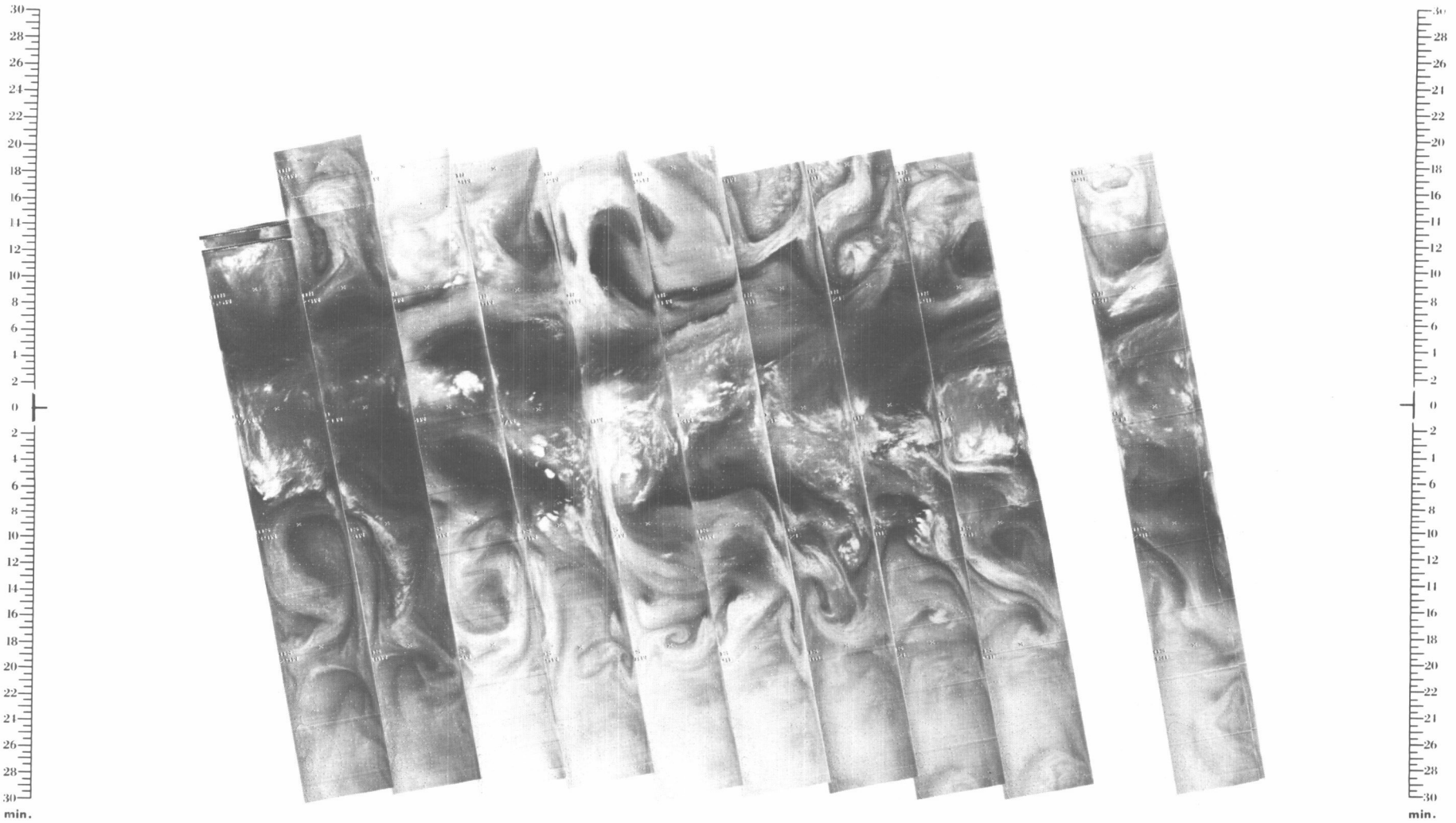



855 854 853 852 851 850 849 848 847 846 845 844 843 842

12 FEBRUARY 1973

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
856 857 858 859 860 861 862 863 864 865 866 867 868
13 FEBRUARY 1973
11.5 μm
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.




868 867 866 865 864 863 862 861 860 859 858 857 856

13 FEBRUARY 1973

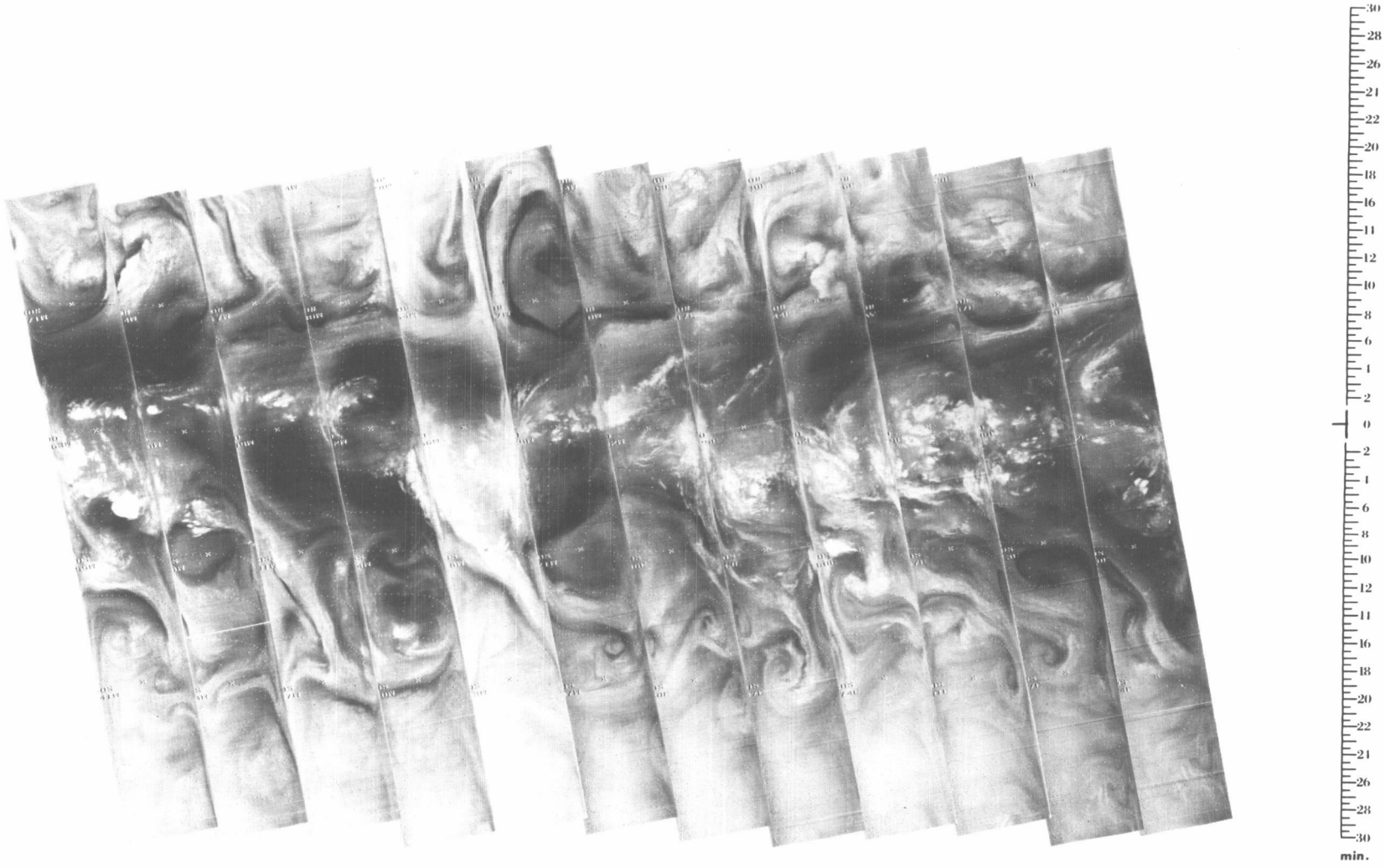
6.7 μm




881 880 879 878 877 876 875 874 873 872 871 870 869

14 FEBRUARY 1973

11.5 μm



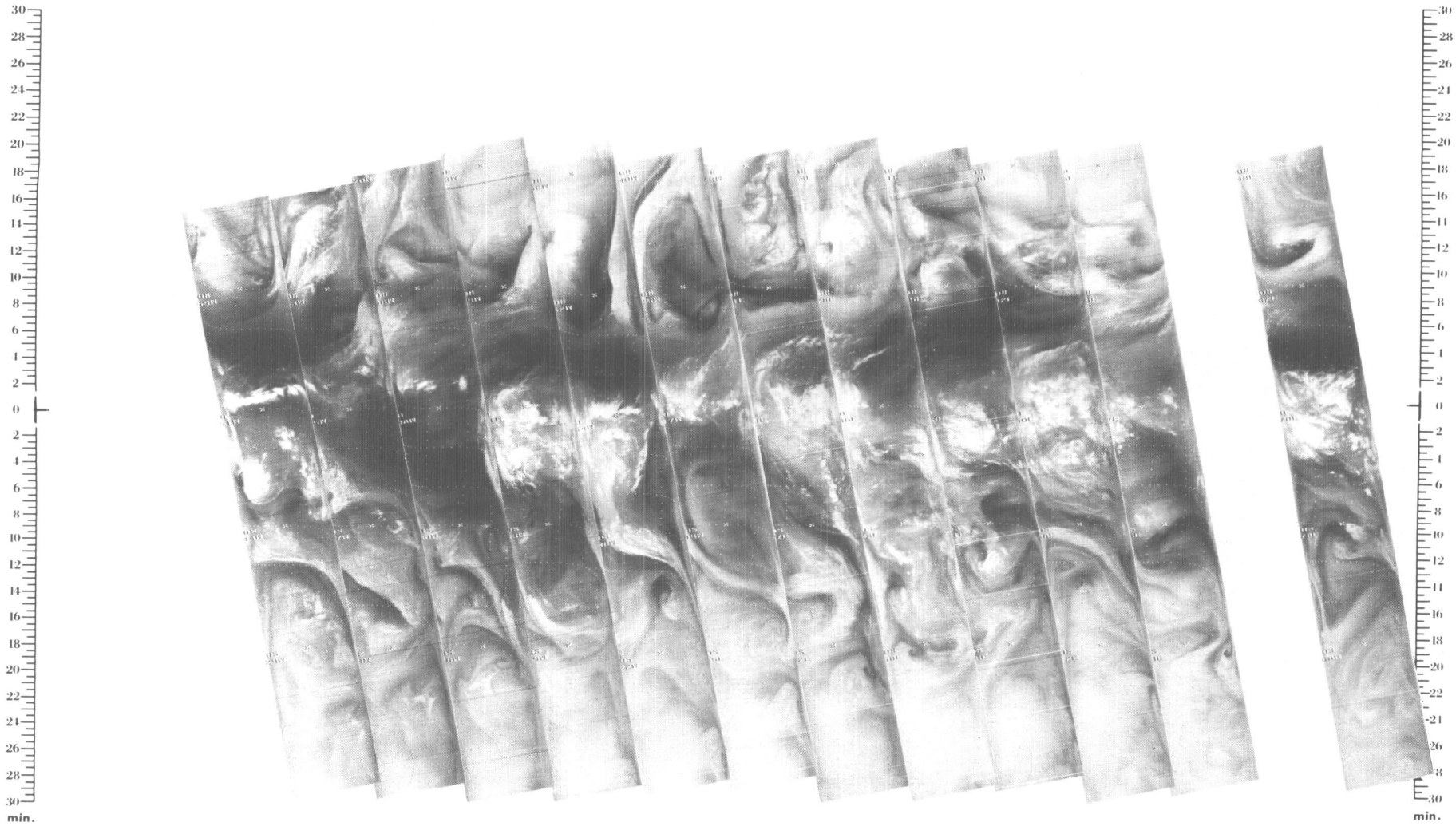

881 880 879 878 877 876 875 874 873 872 871 870 869

14 FEBRUARY 1973

6.7 μm

15 FEBRUARY 1973

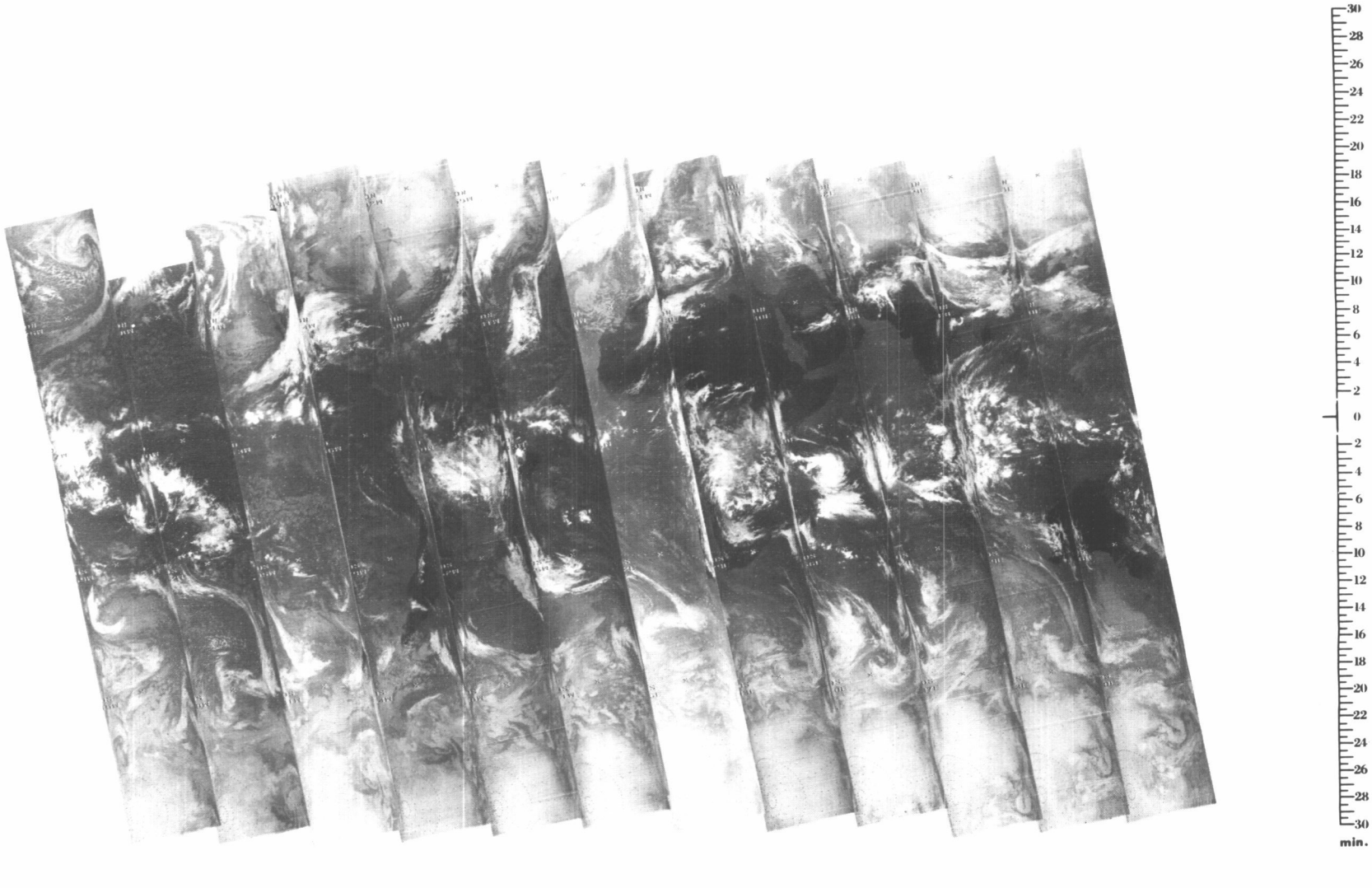
11.5 μm




895 894 893 892 891 890 889 888 887 886 885 884 883 882

15 FEBRUARY 1973

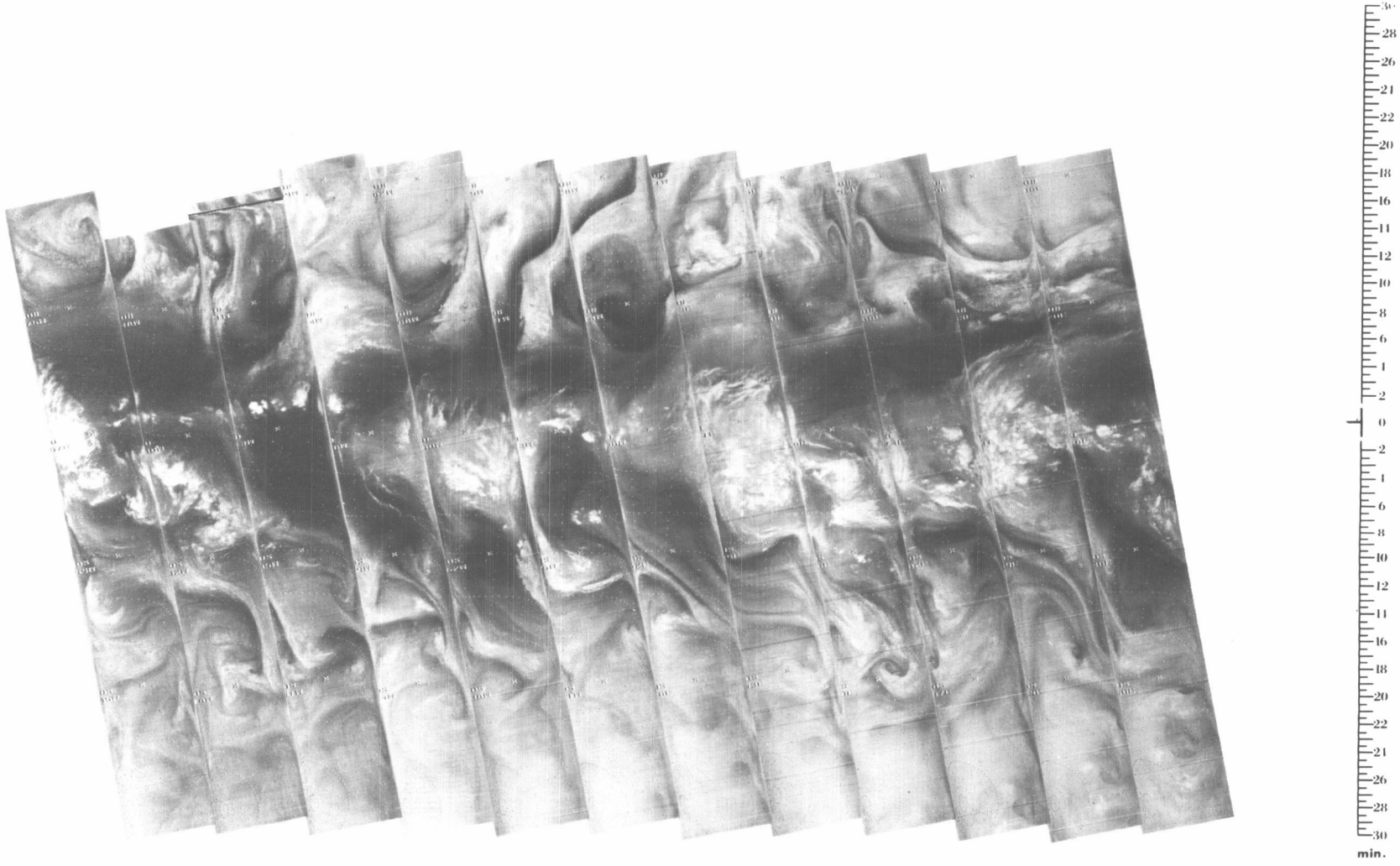
6.7 μm




908 907 906 905 904 903 902 901 900 899 898 897 896

16 FEBRUARY 1973

11.5 μm




908 907 906 905 904 903 902 901 900 899 898 897 896

16 FEBRUARY 1973

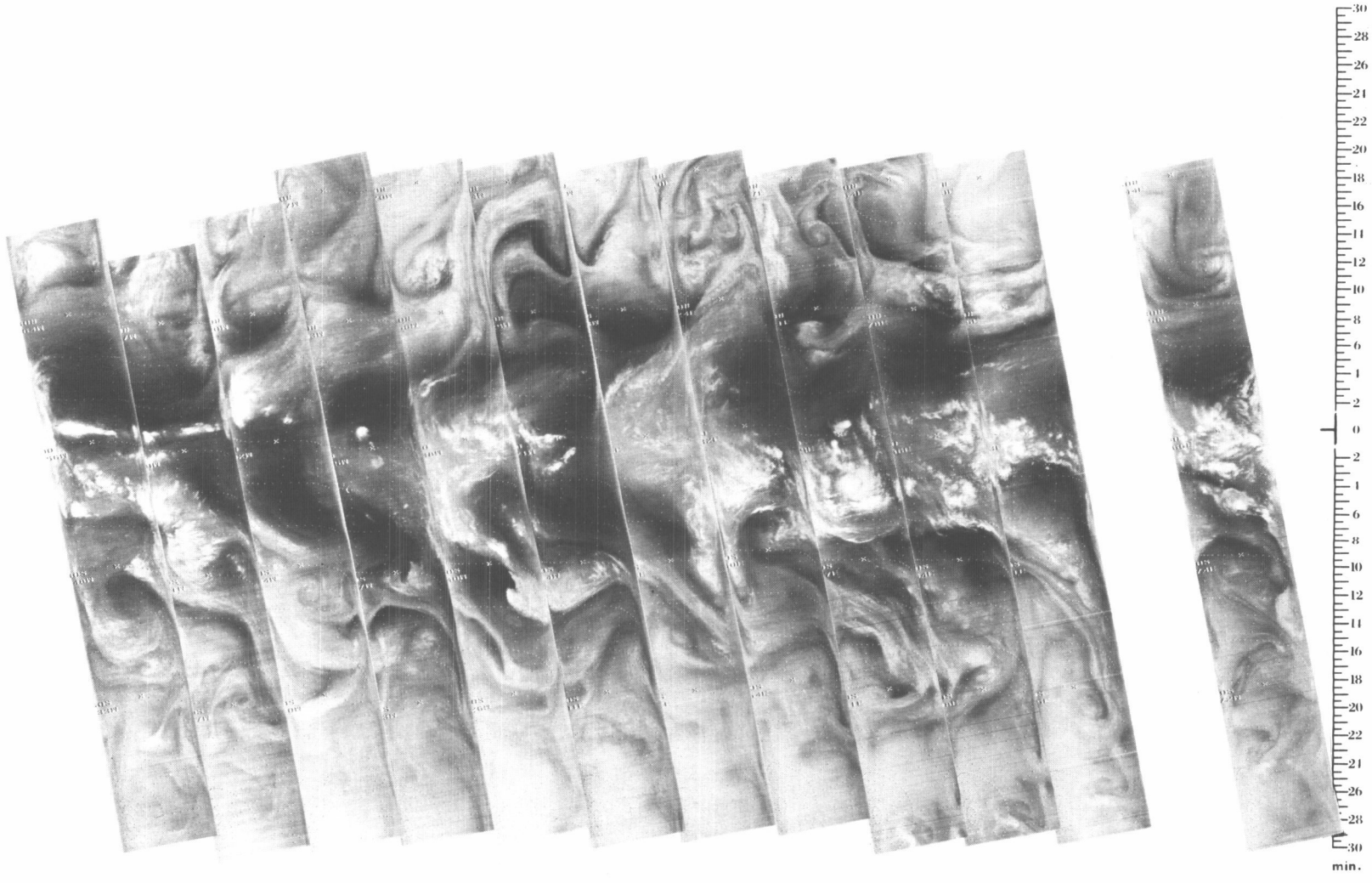
6.7 μm




922 921 920 919 918 917 916 915 914 913 912 911 910 909

17 FEBRUARY 1973

11.5 μm

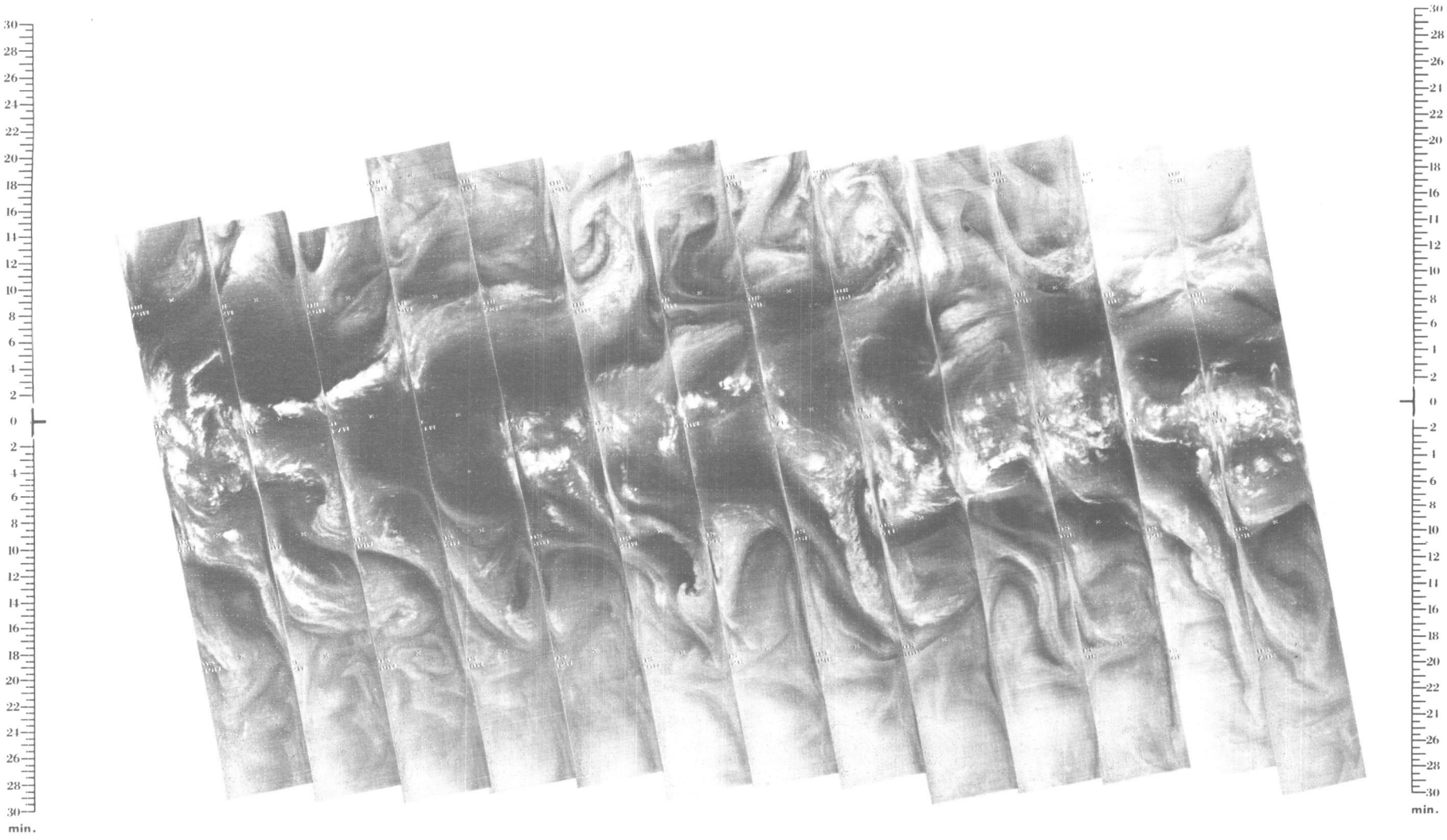



922 921 920 919 918 917 916 915 914 913 912 911 910 909

17 FEBRUARY 1973

6.7 μm

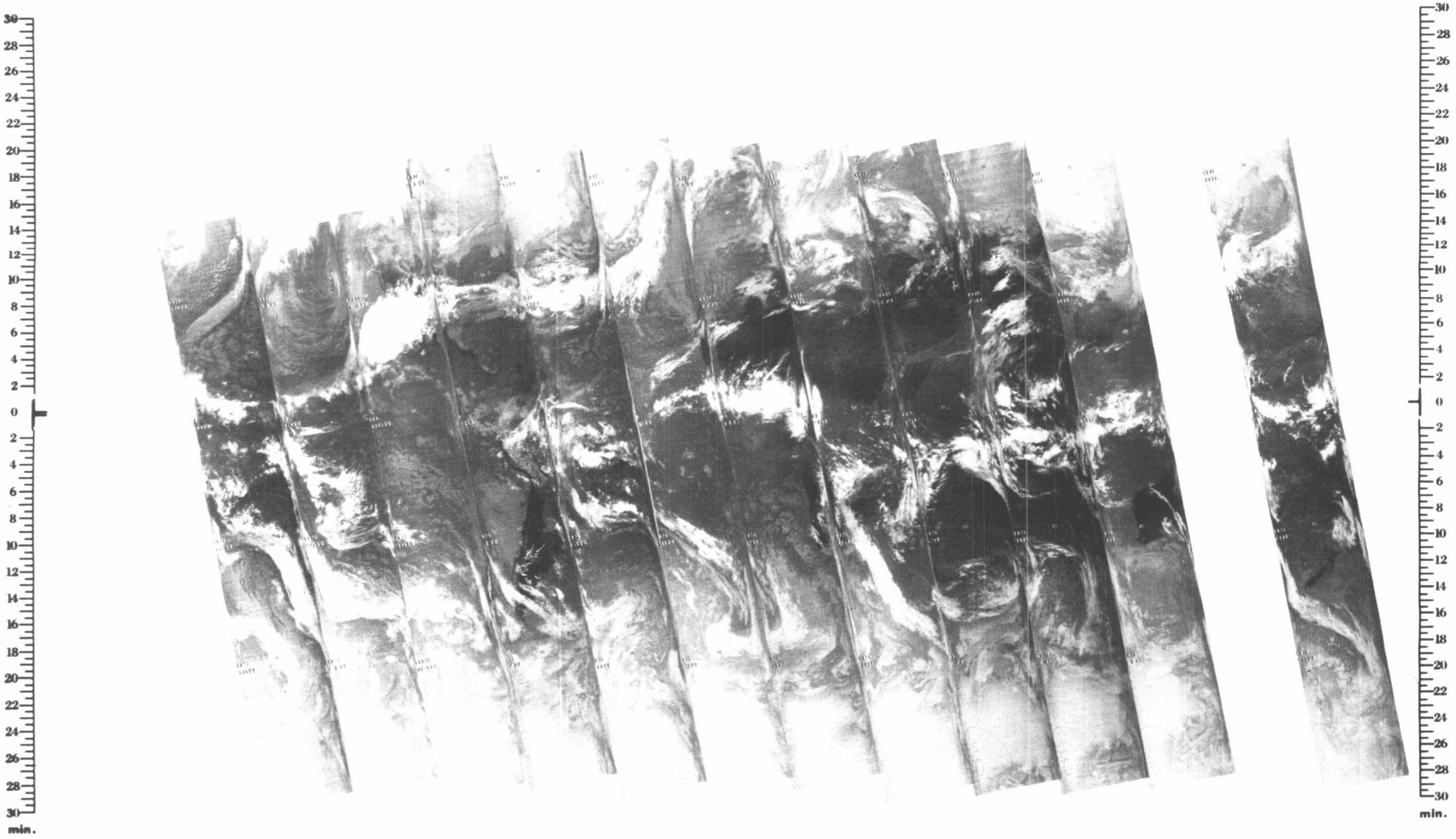
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
923 924 925 926 927 928 929 930 931 932 933 934 935
18 FEBRUARY 1973
11.5 μm




935 934 933 932 931 930 929 928 927 926 925 924 923

18 FEBRUARY 1973

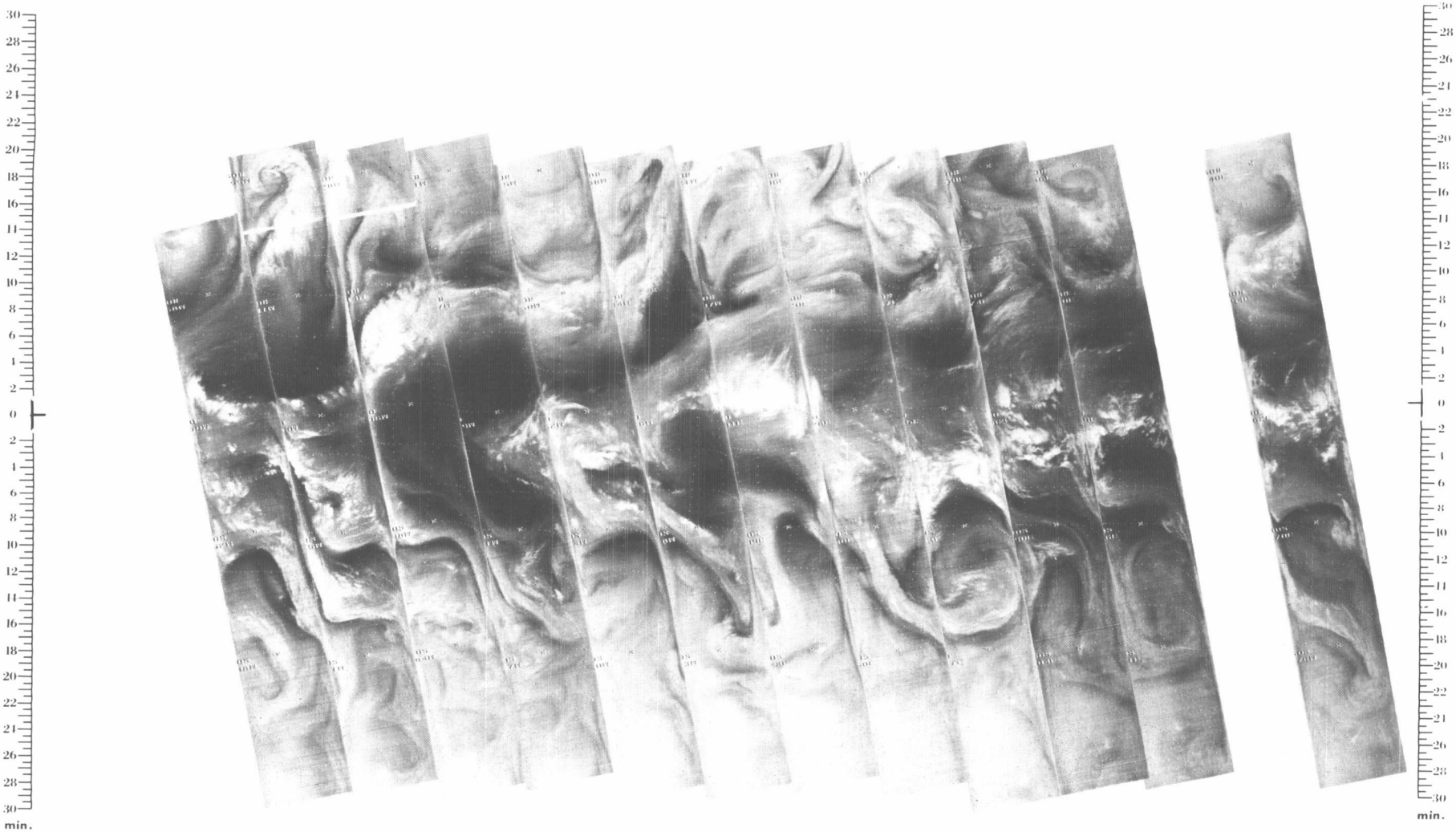
6.7 μm




949 948 947 946 945 944 943 942 941 940 939 938 937 936

19 FEBRUARY 1973

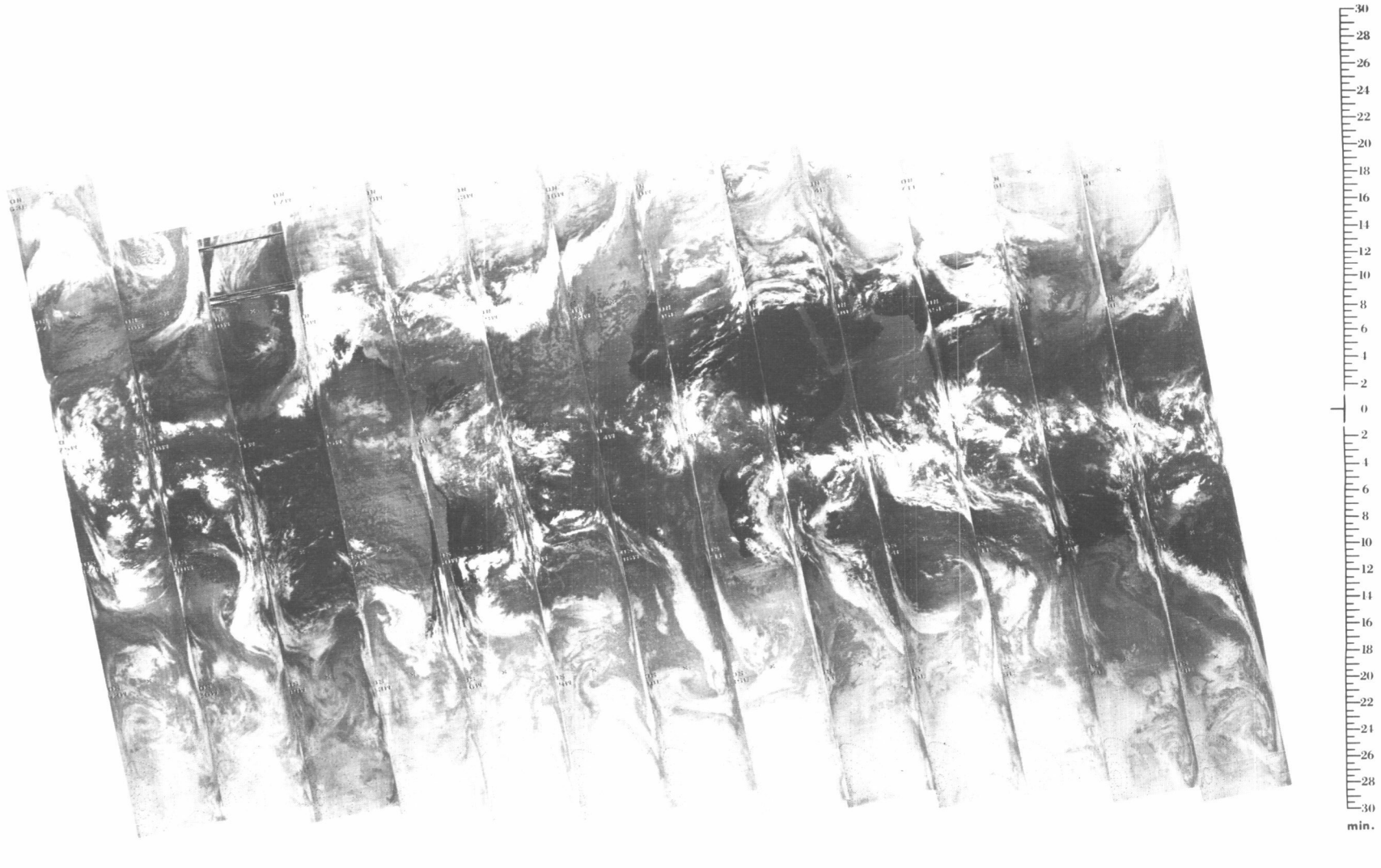
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949 948 947 946 945 944 943 942 941 940 939 938 937 936

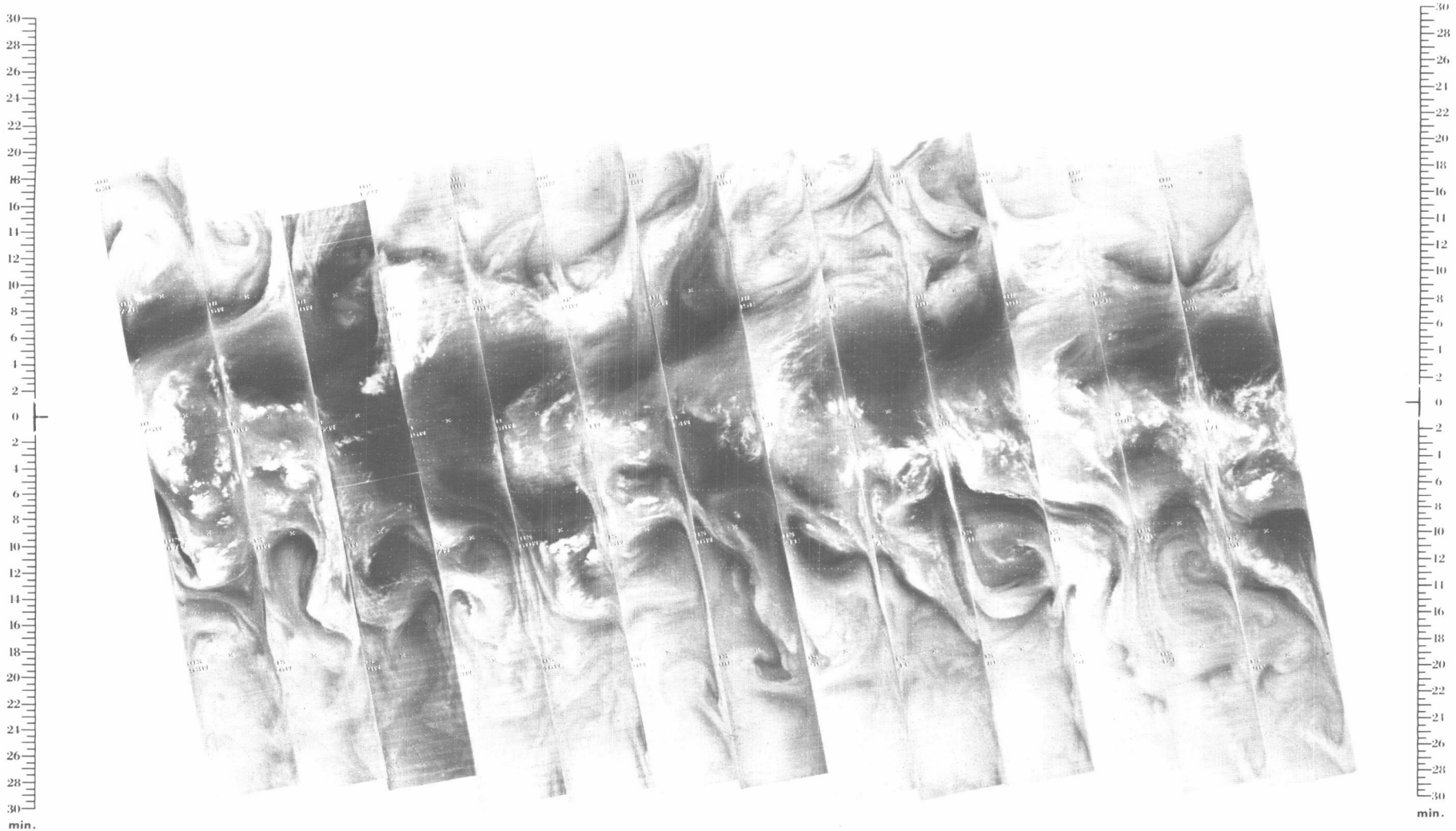
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6.7 μm




20 FEBRUARY 1973

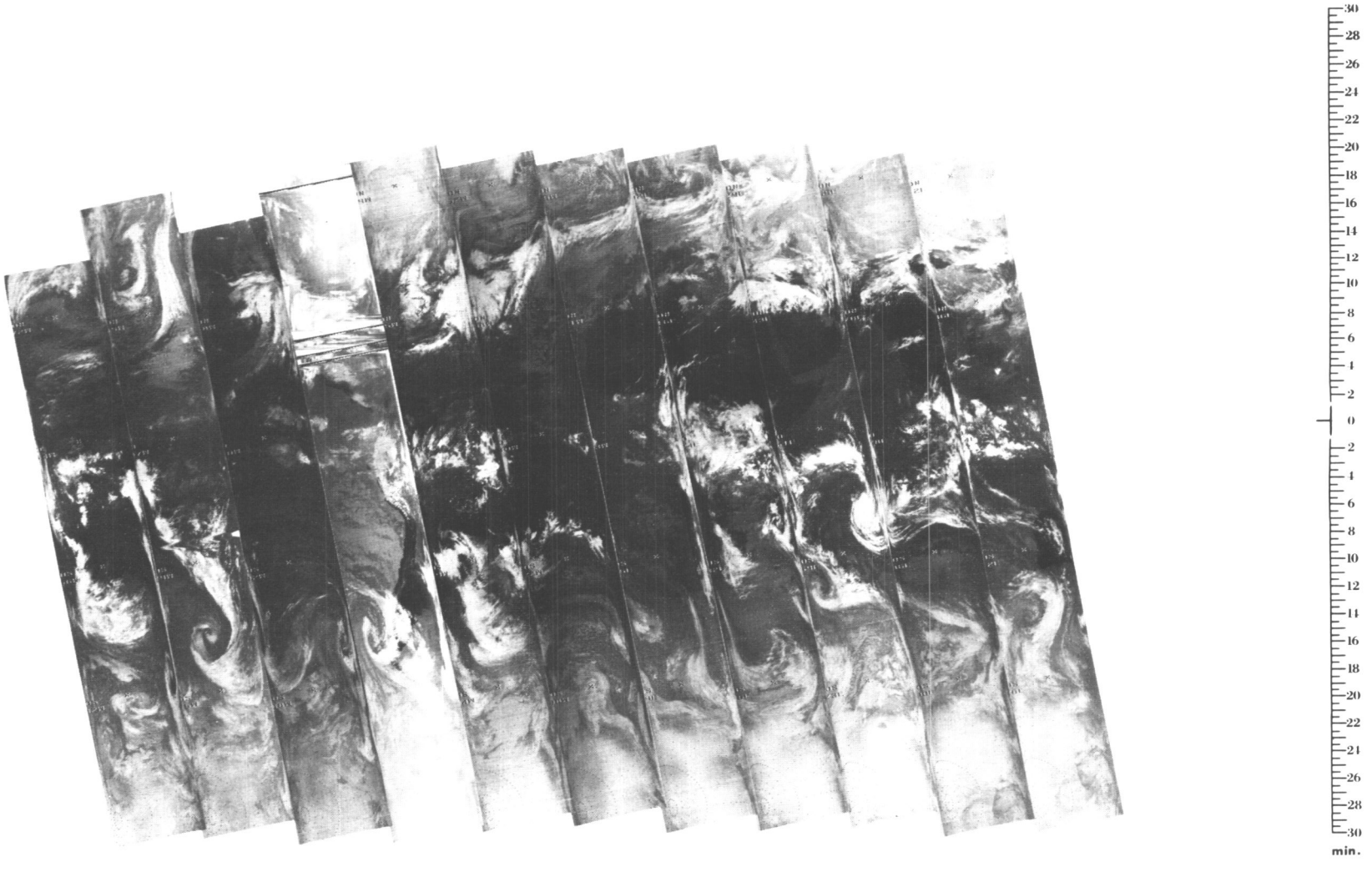
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962 961 960 959 958 957 956 955 954 953 952 951 950

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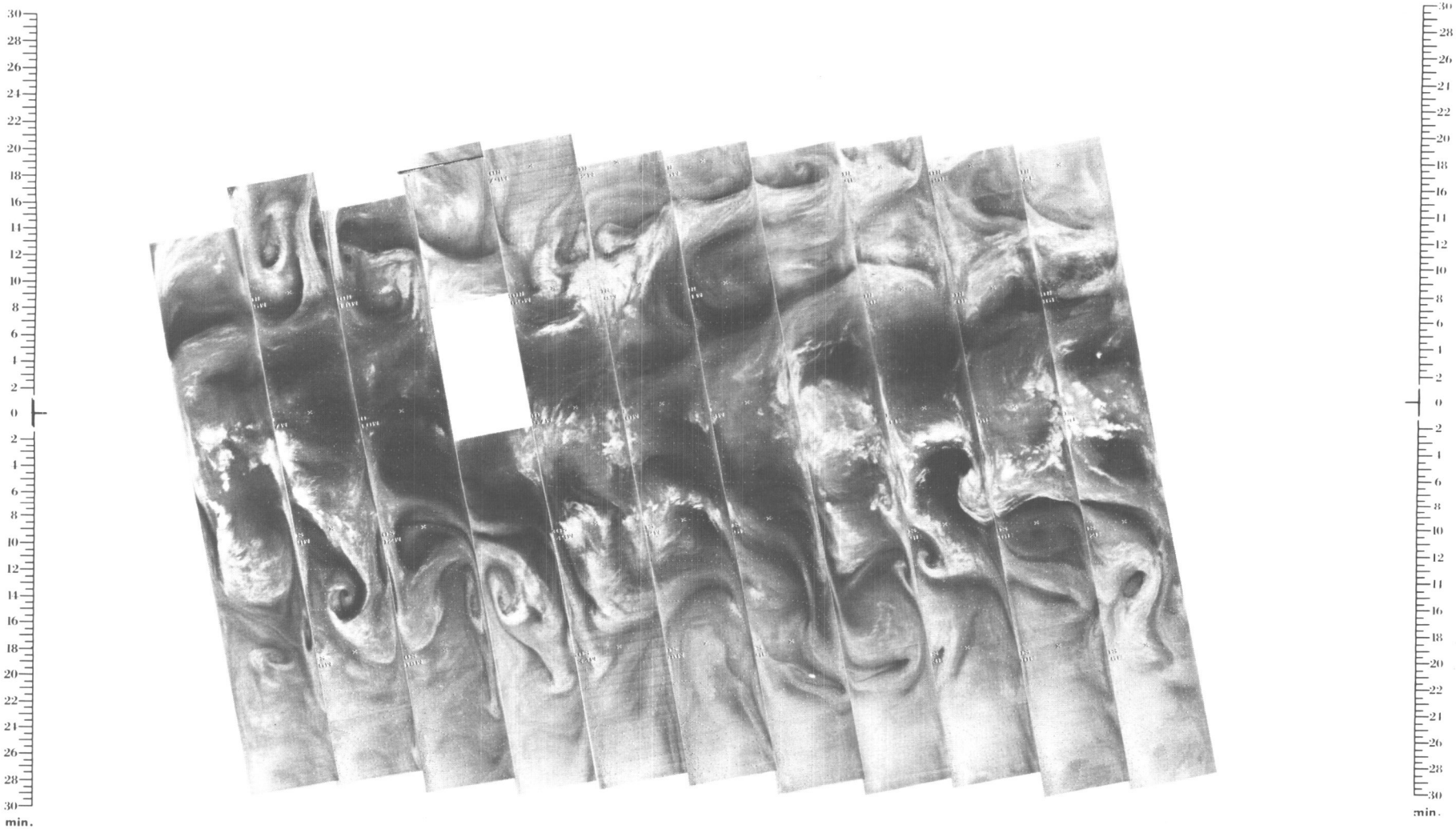
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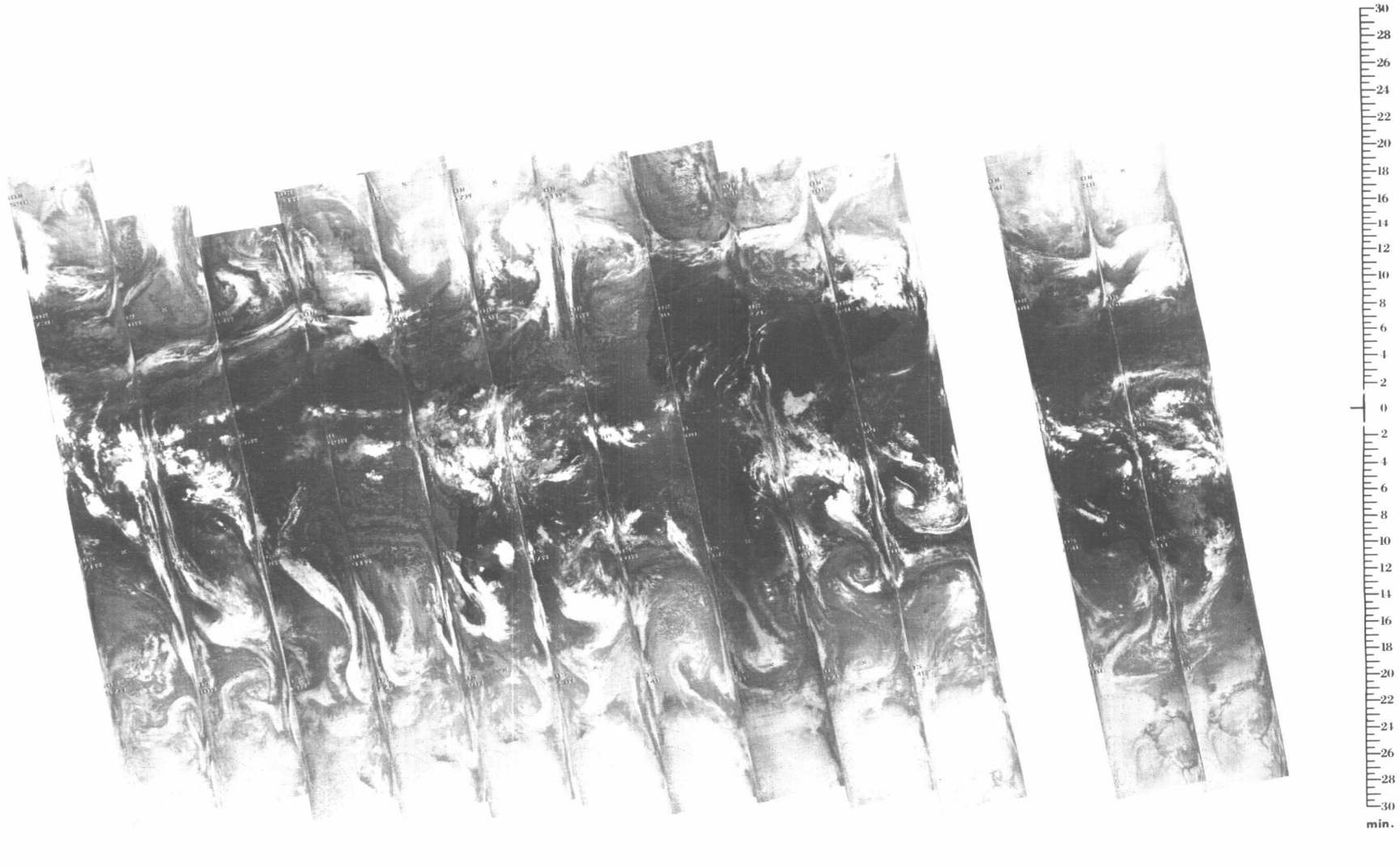
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21 FEBRUARY 1973

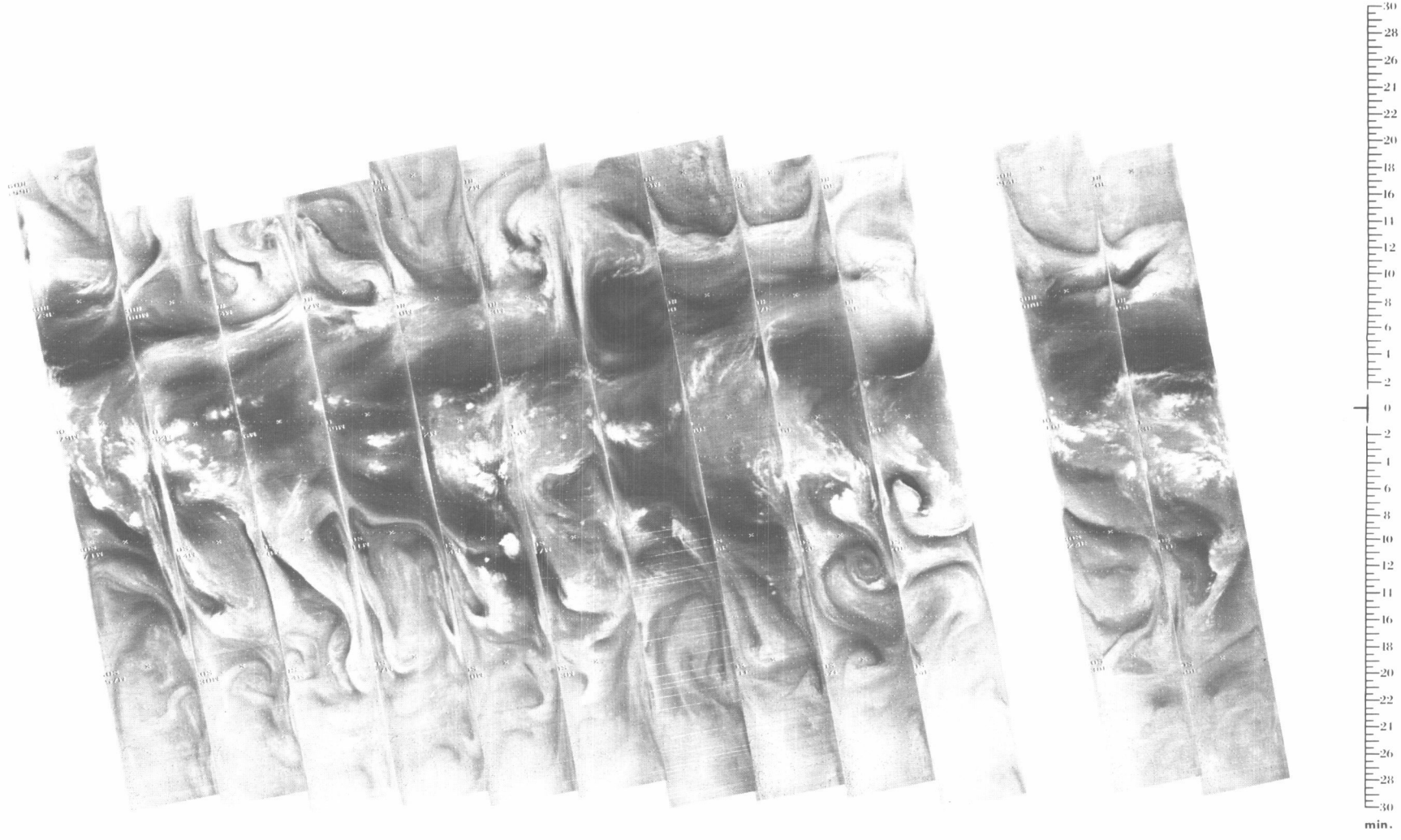
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989 988 987 986 985 984 983 982 981 980 979 978 977 976

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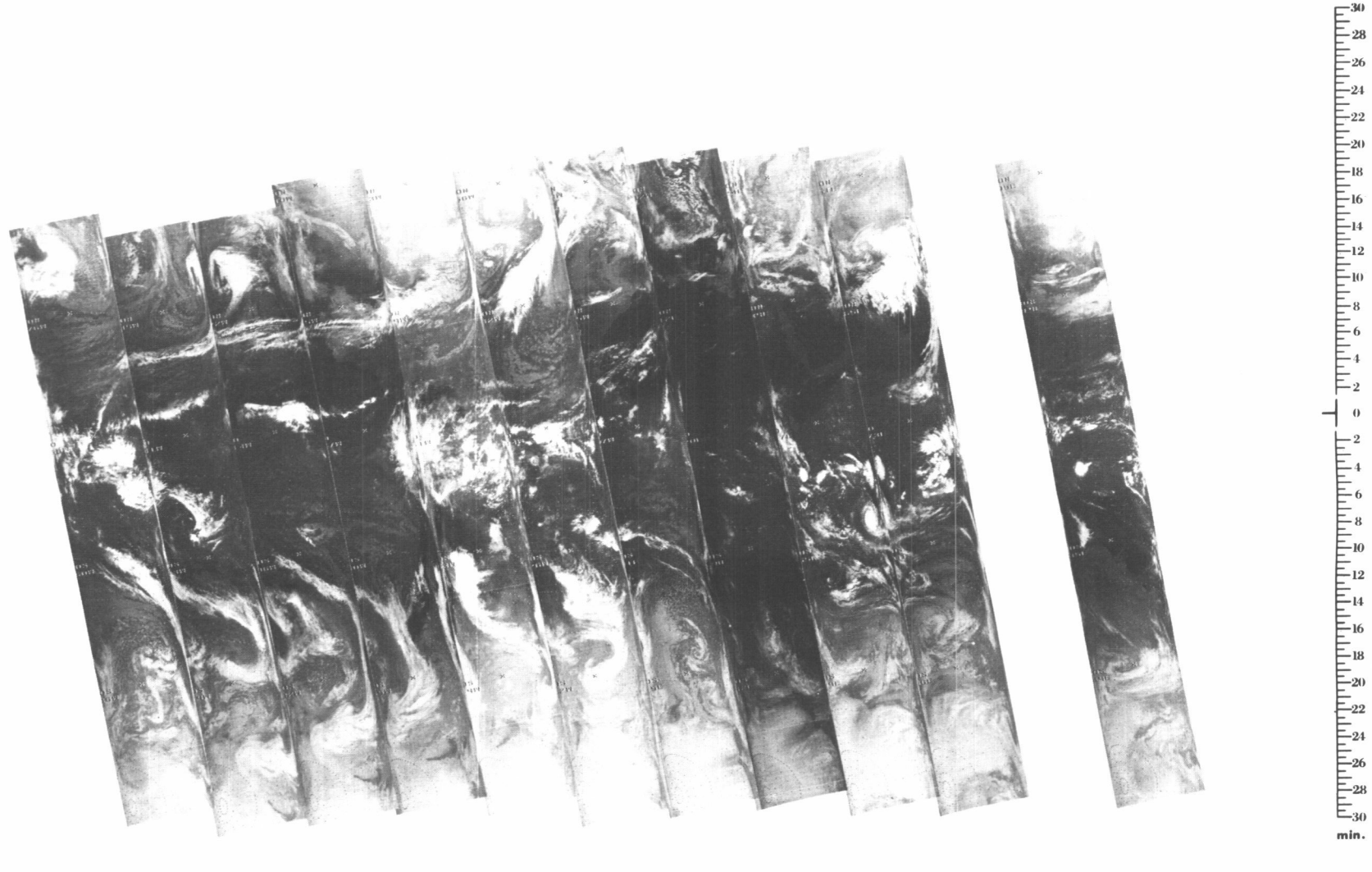
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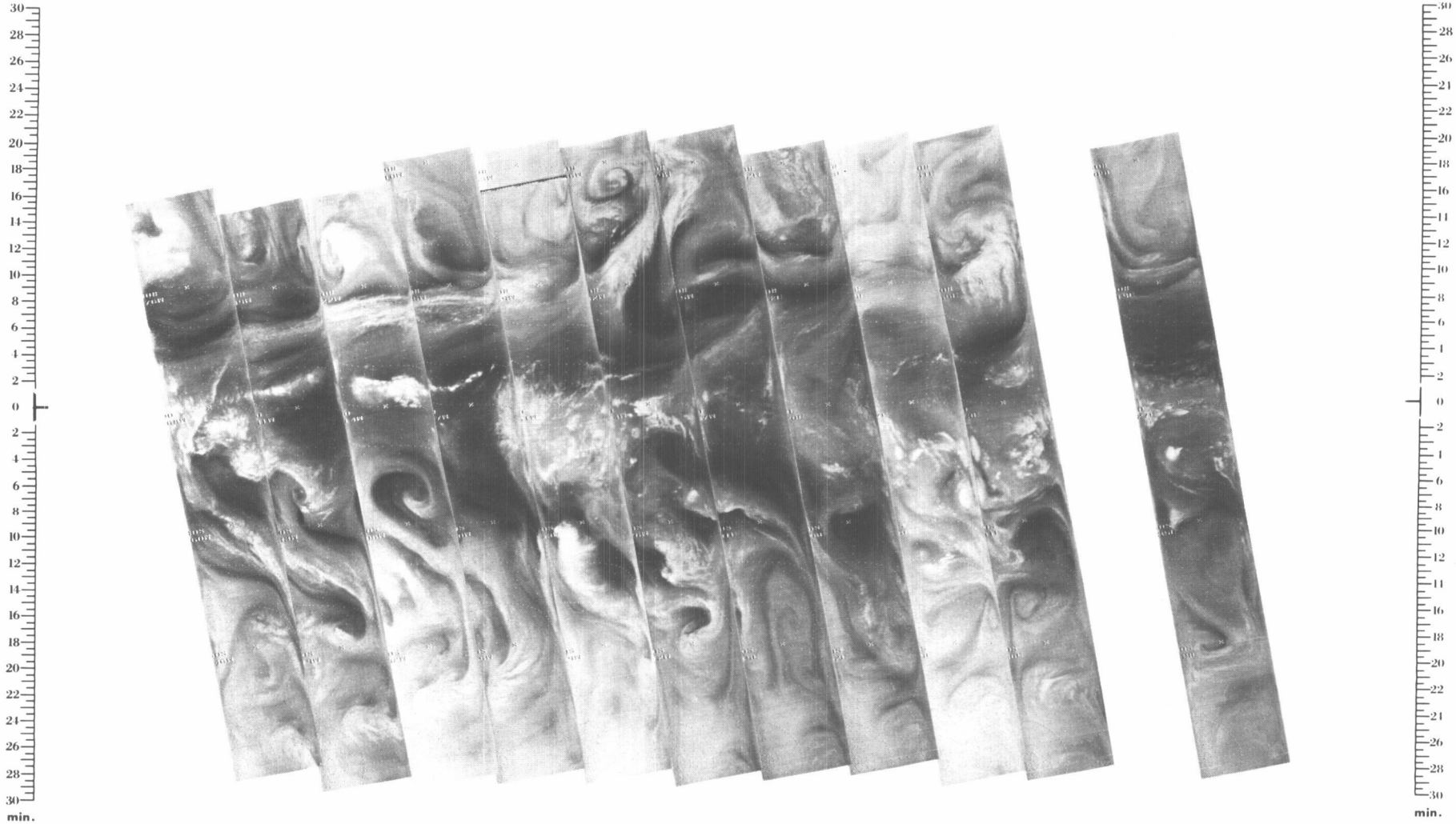
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1002 1001 1000 999 998 997 996 995 994 993 992 991 990

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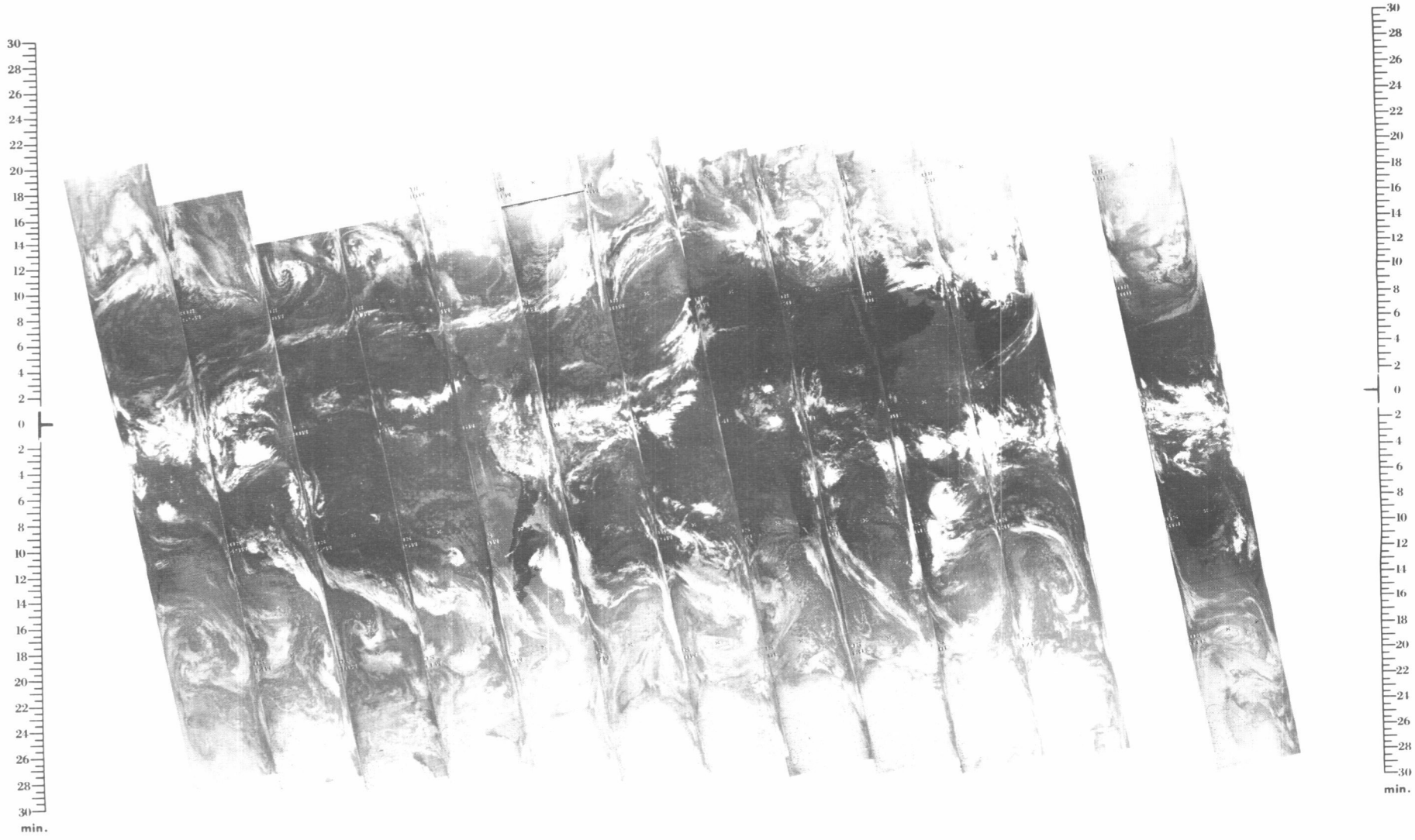
11.5 μm




1002 1001 1000 999 998 997 996 995 994 993 992 991 990

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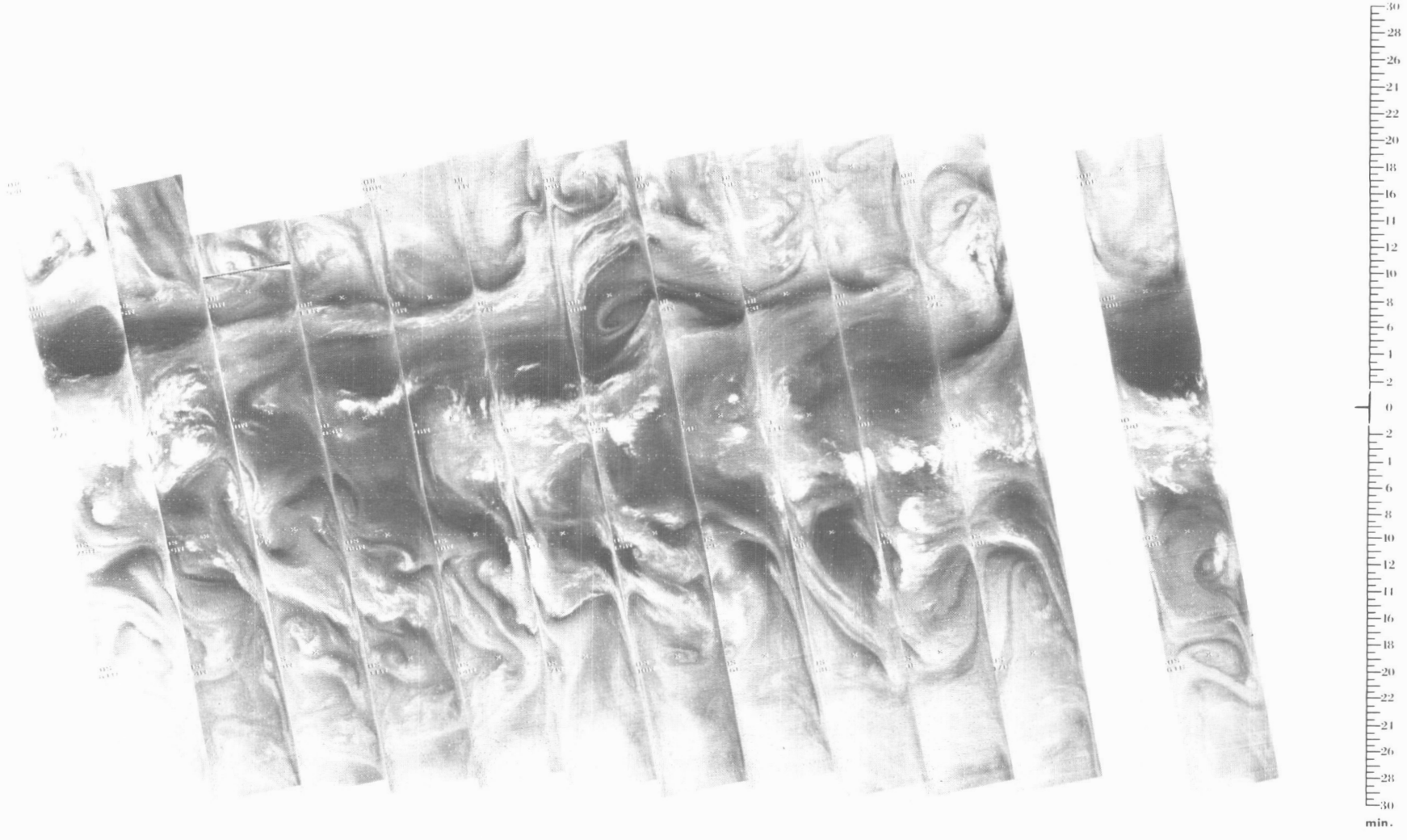
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1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003

24 FEBRUARY 1973

11.5 μm

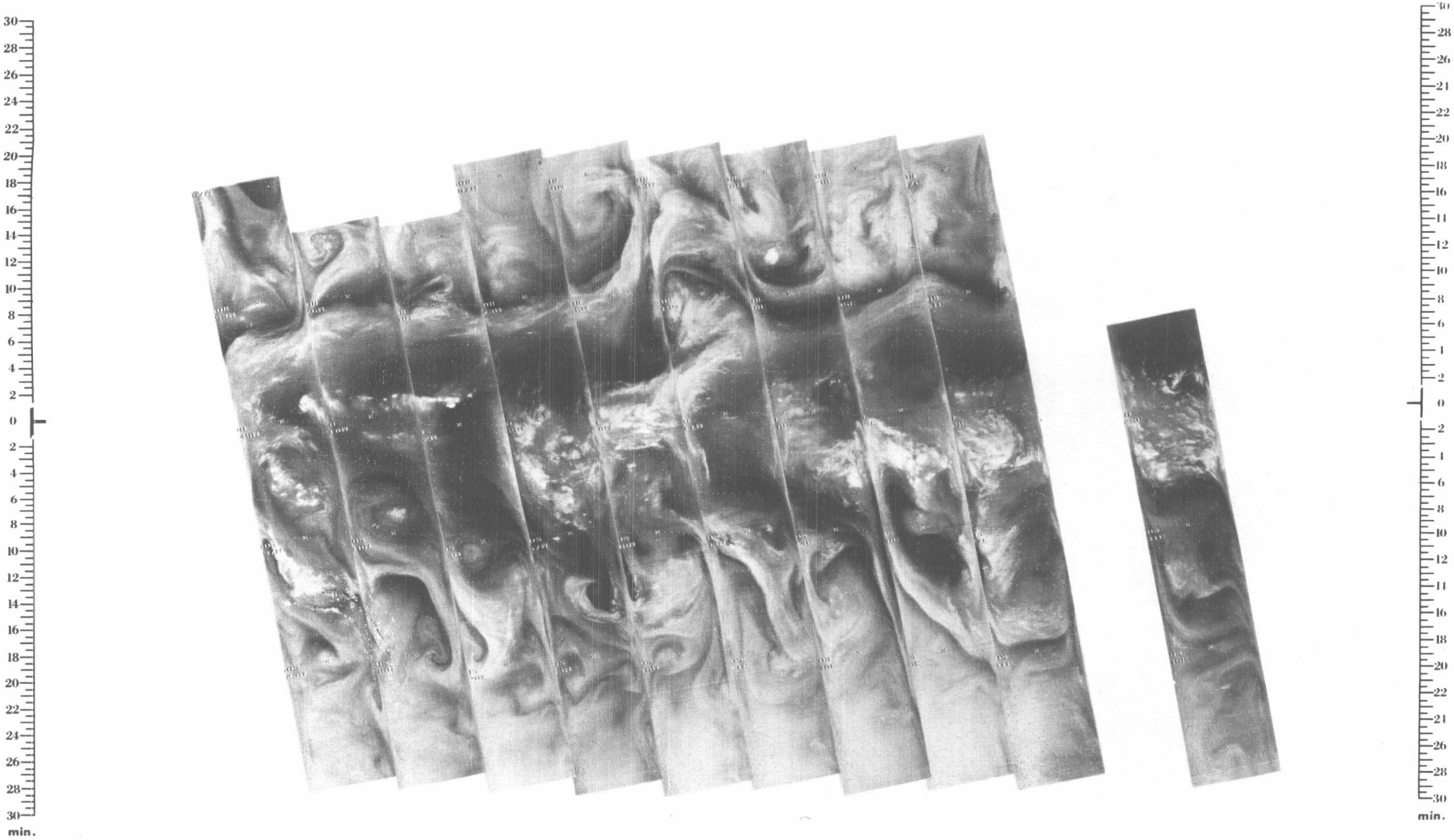



1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003

24 FEBRUARY 1973

6.7 μm

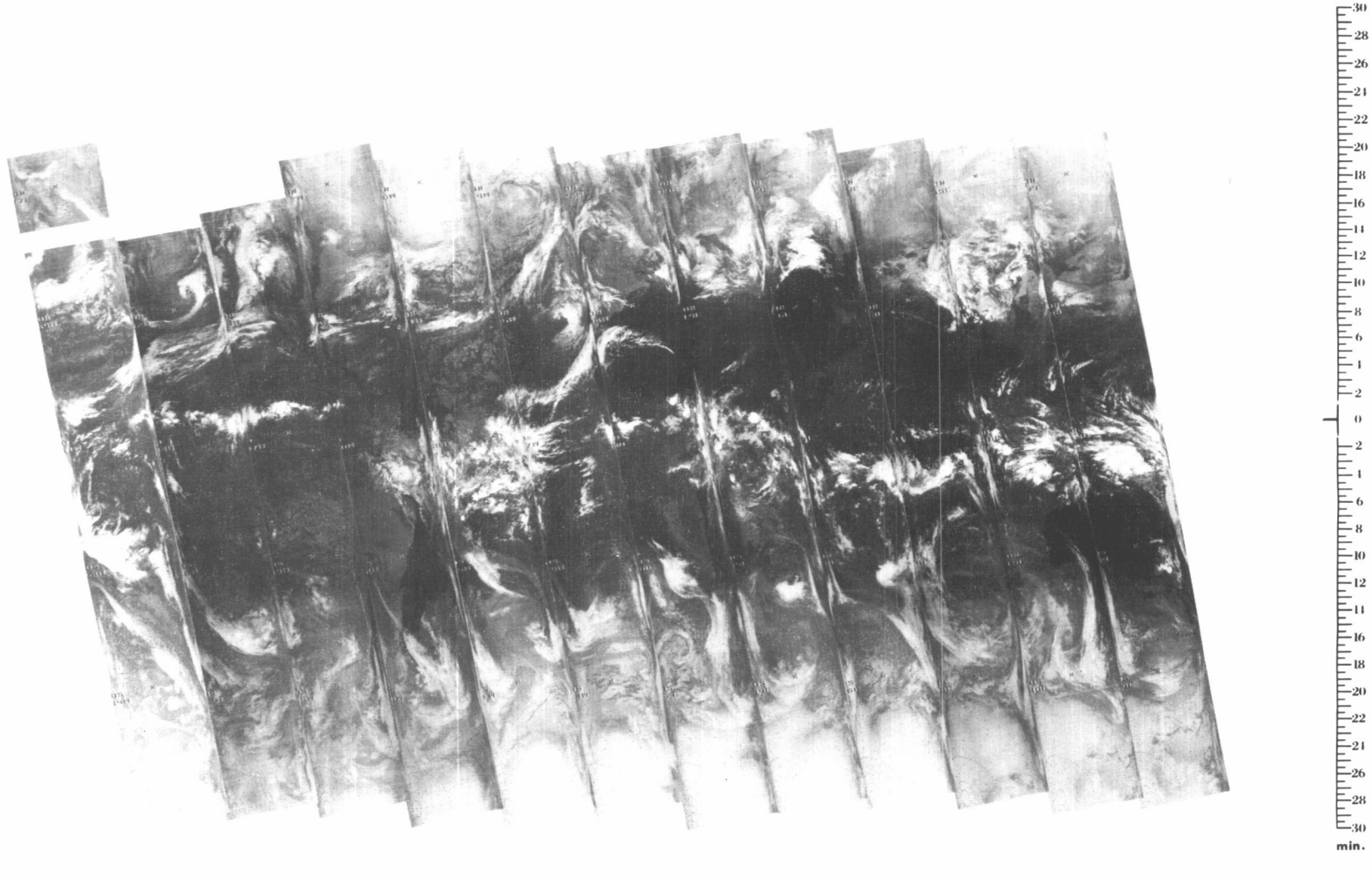
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017
25 FEBRUARY 1973
11.5 μm




1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017

25 FEBRUARY 1973

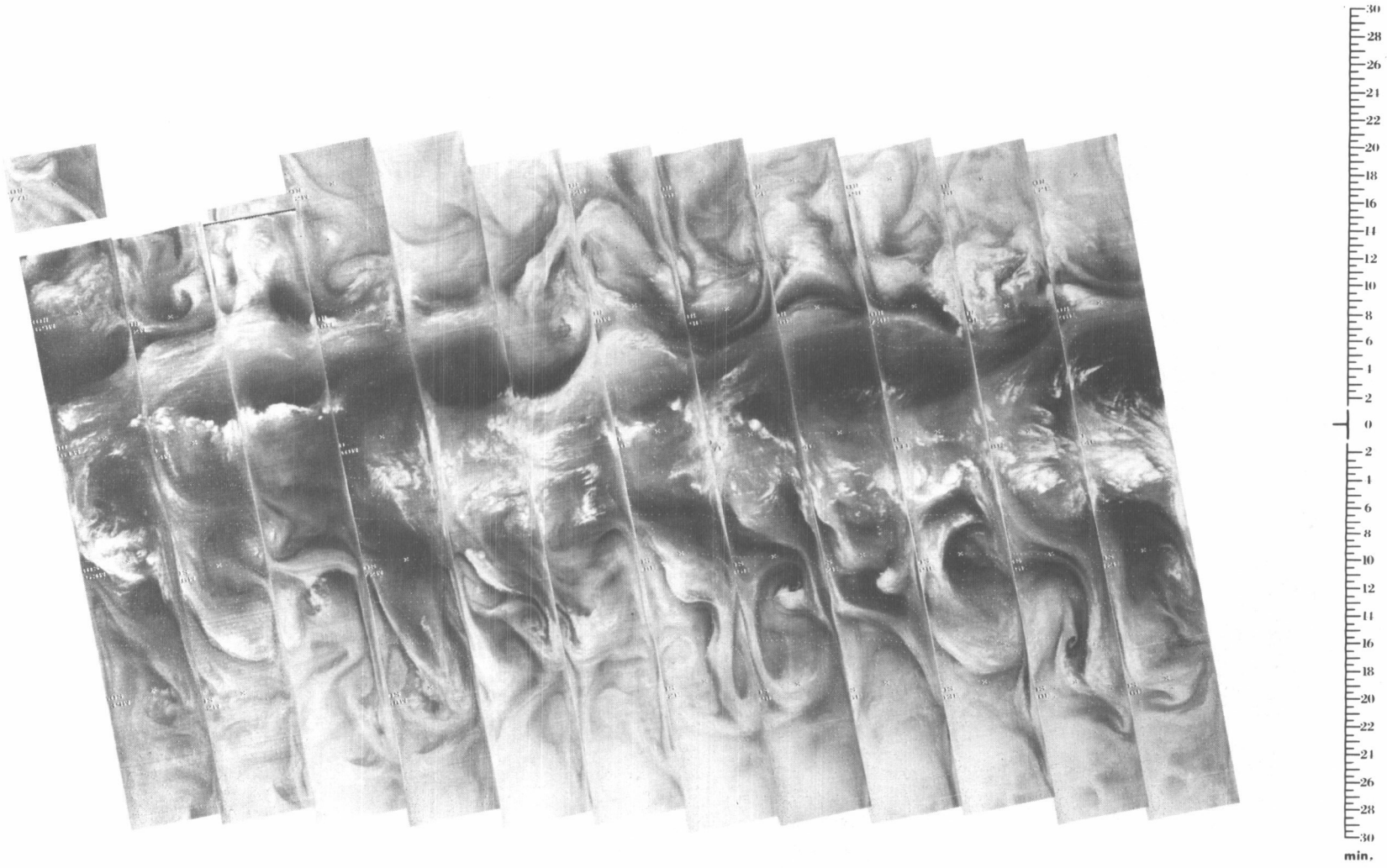
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1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030

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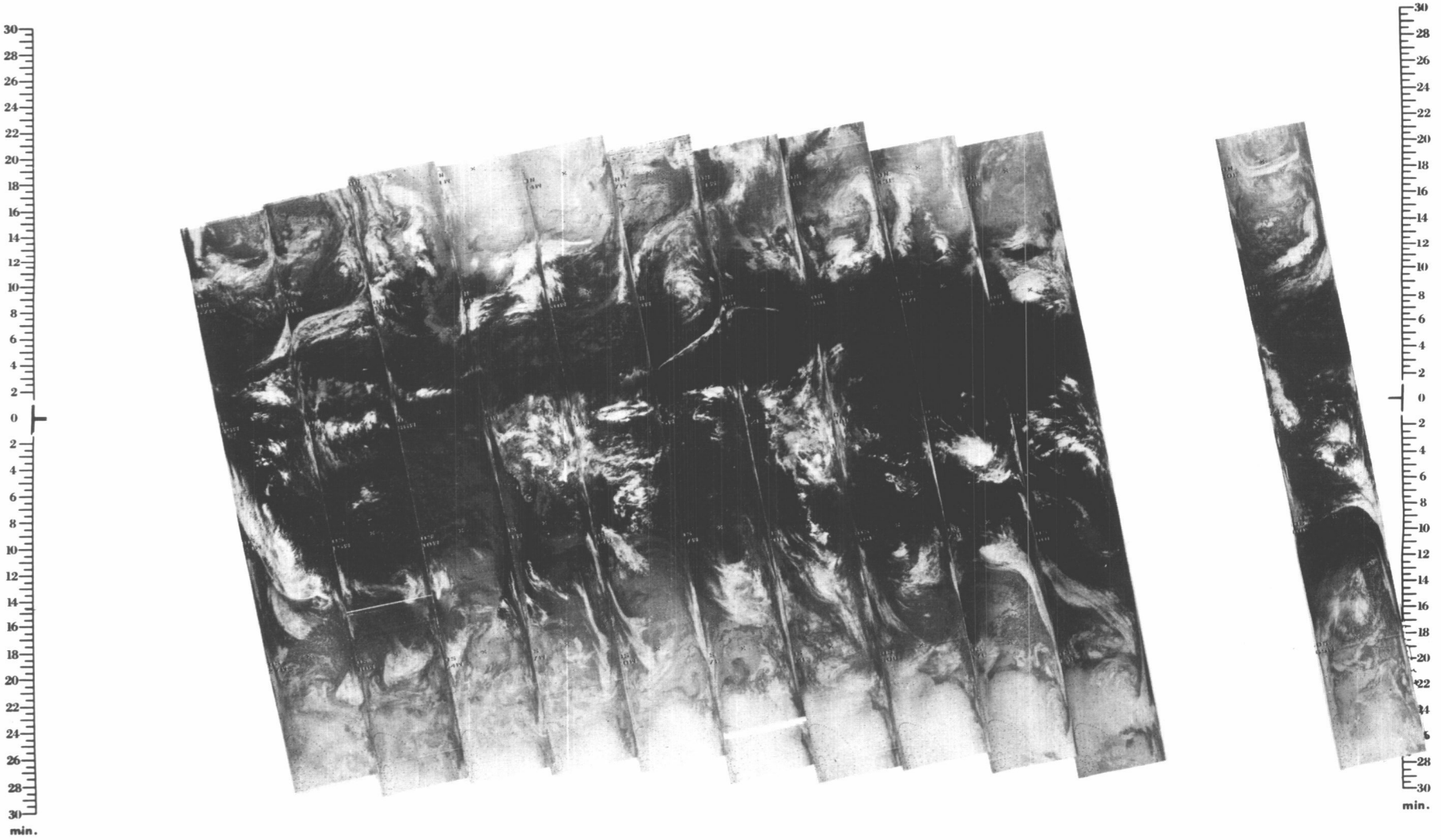
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1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030

26 FEBRUARY 1973

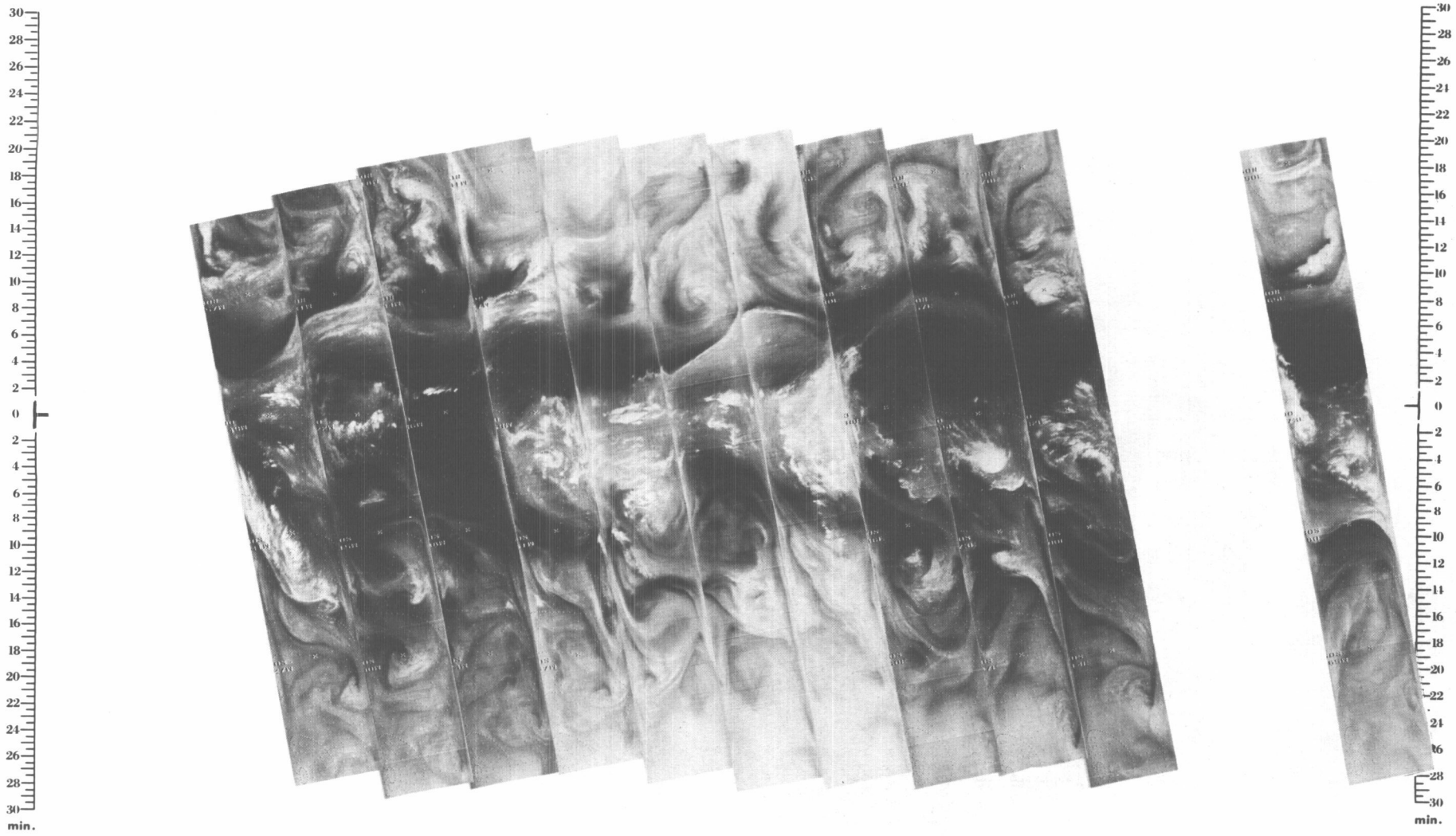
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1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044 1043

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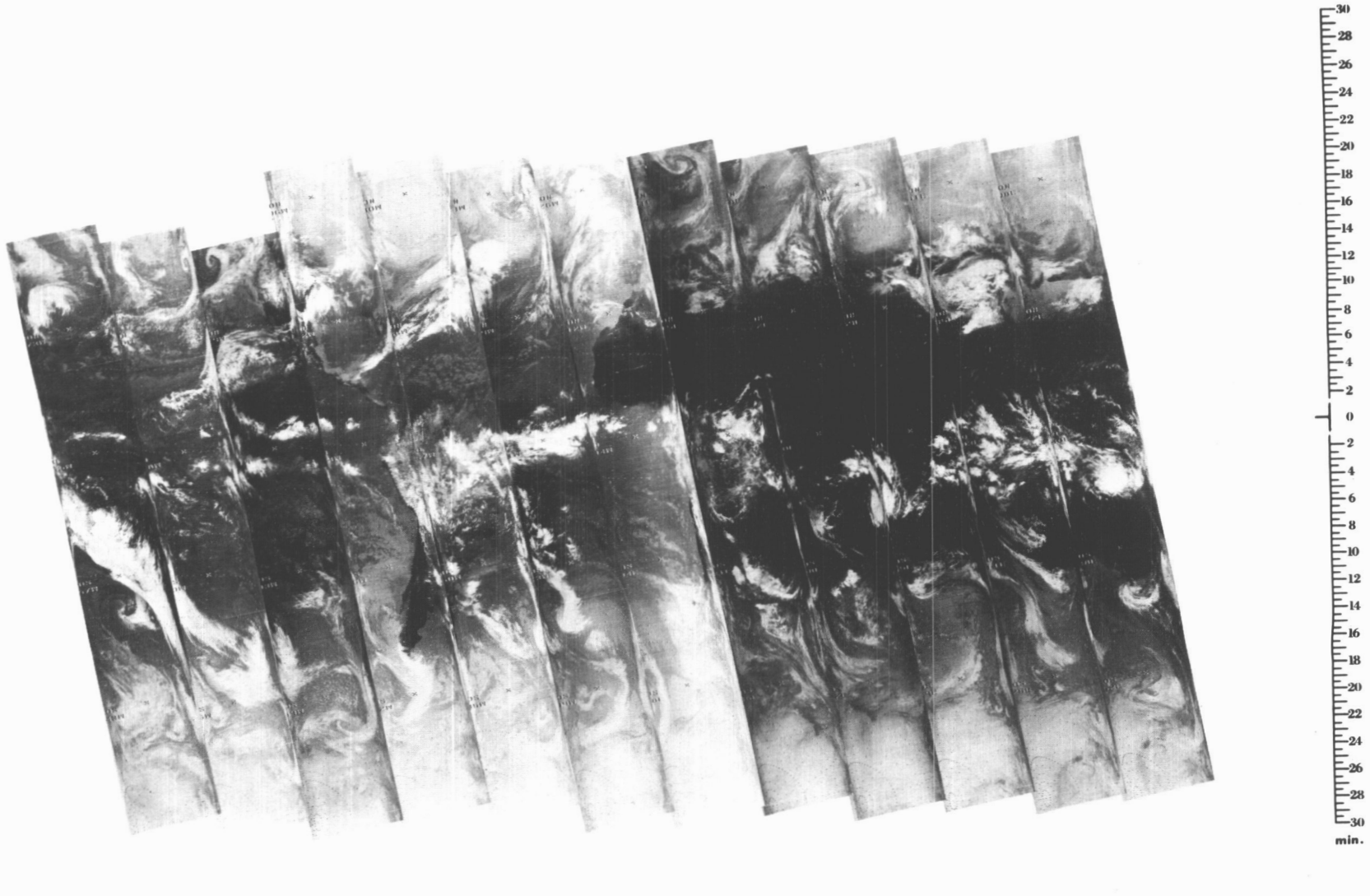
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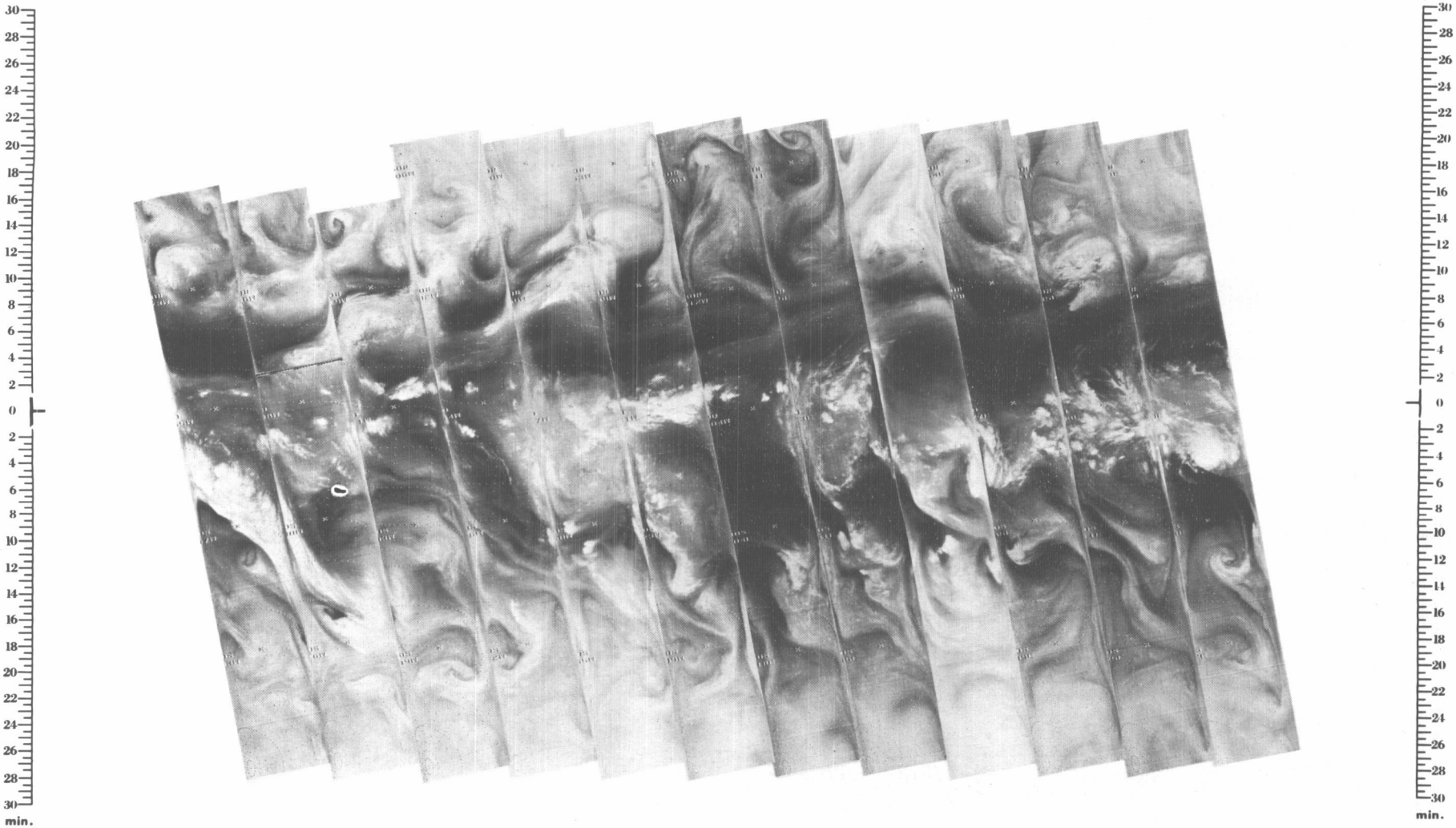
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1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1957

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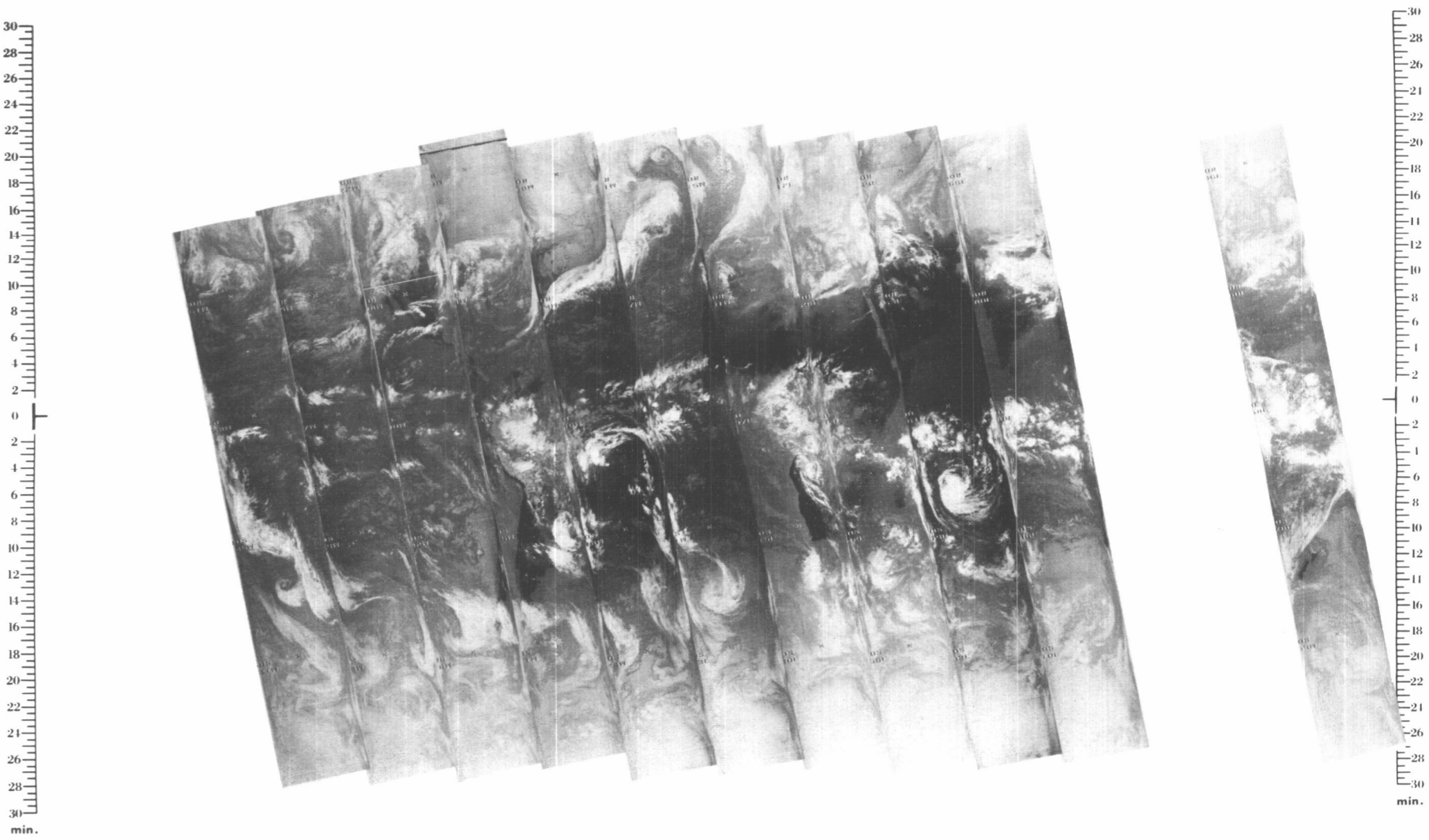
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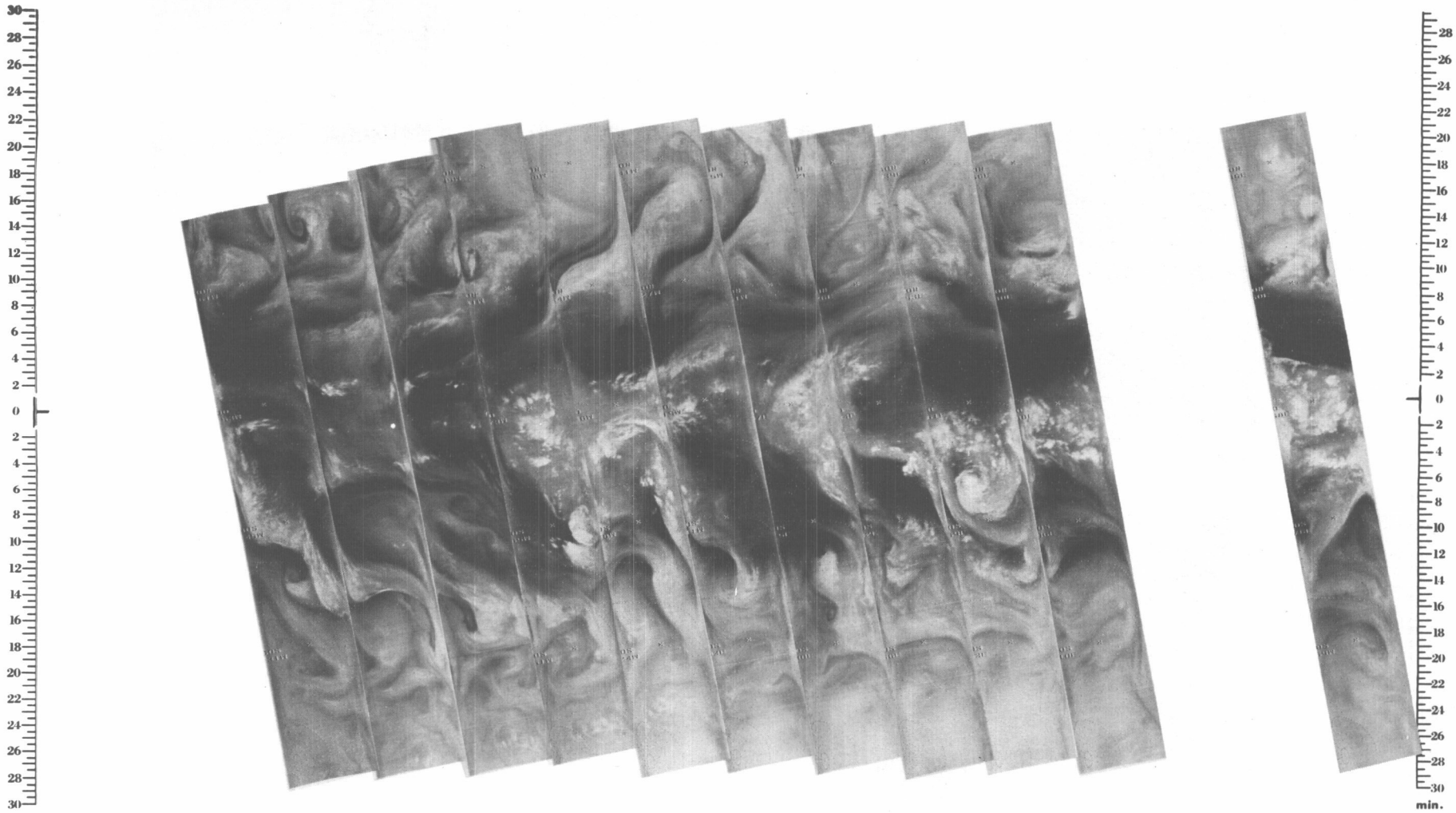
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1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071 1070

1 MARCH 1973

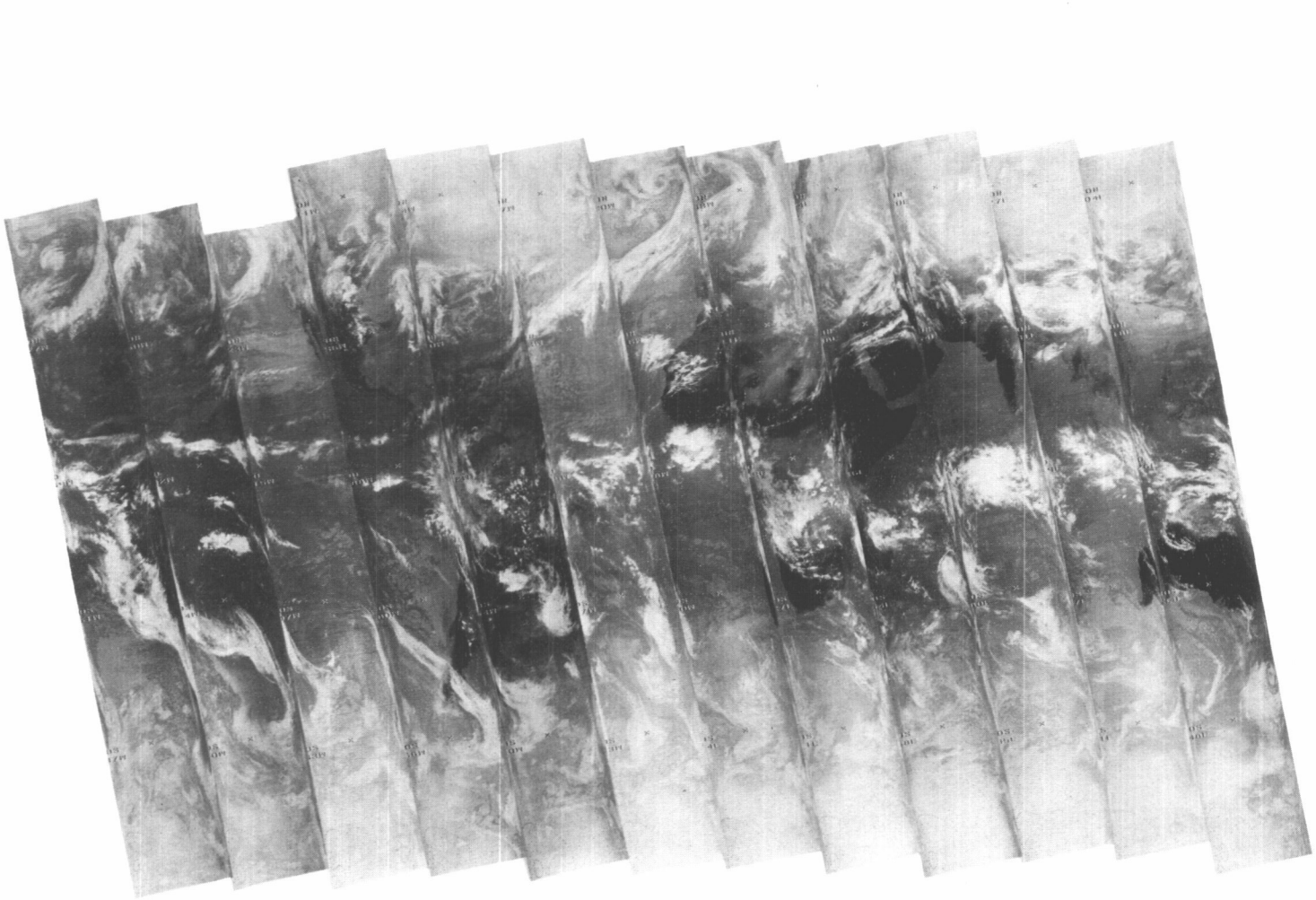
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1 MARCH 1973

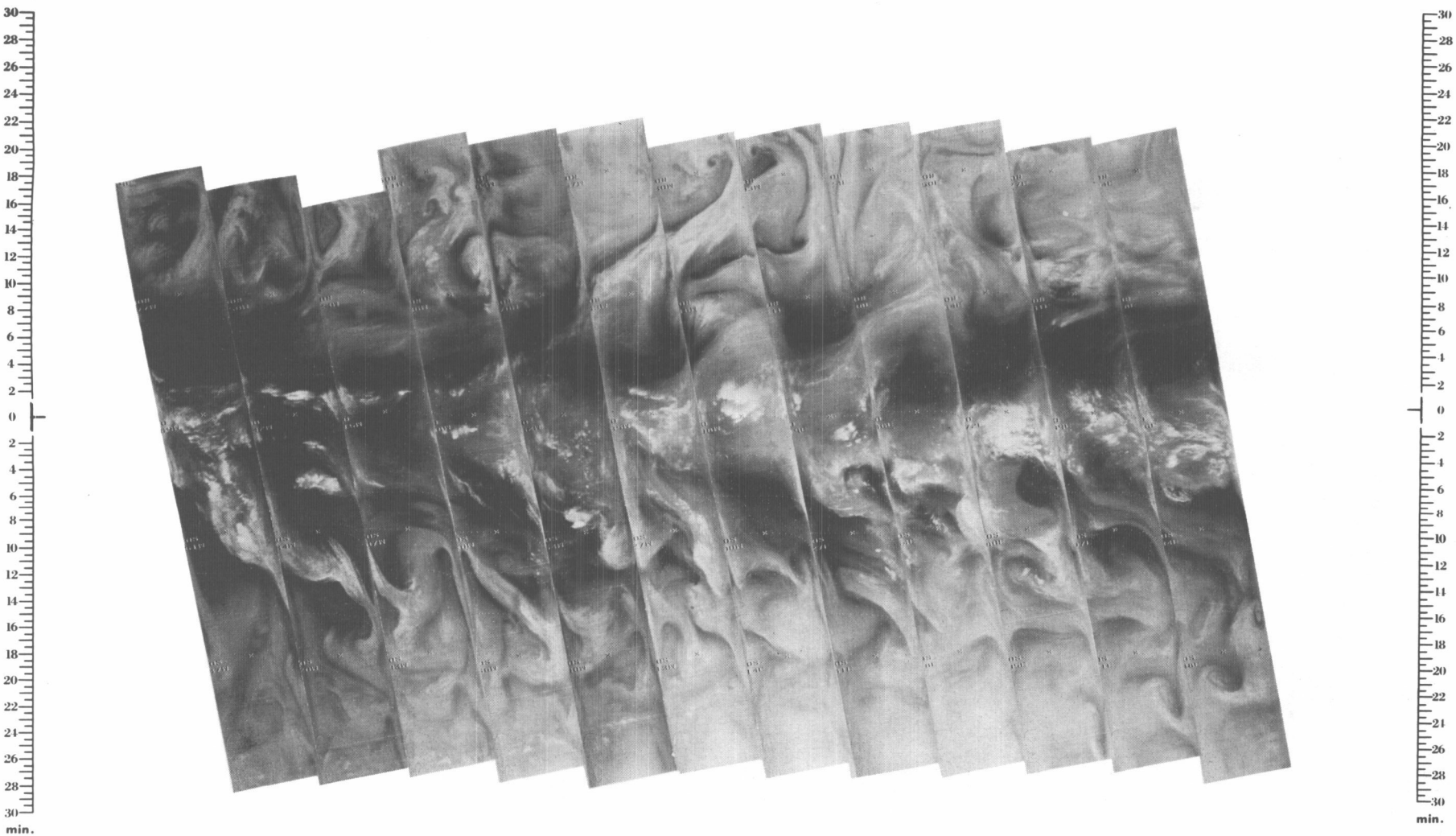
6.7 μm




1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084

2 MARCH 1973

11.5 μm




1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084

2 MARCH 1973

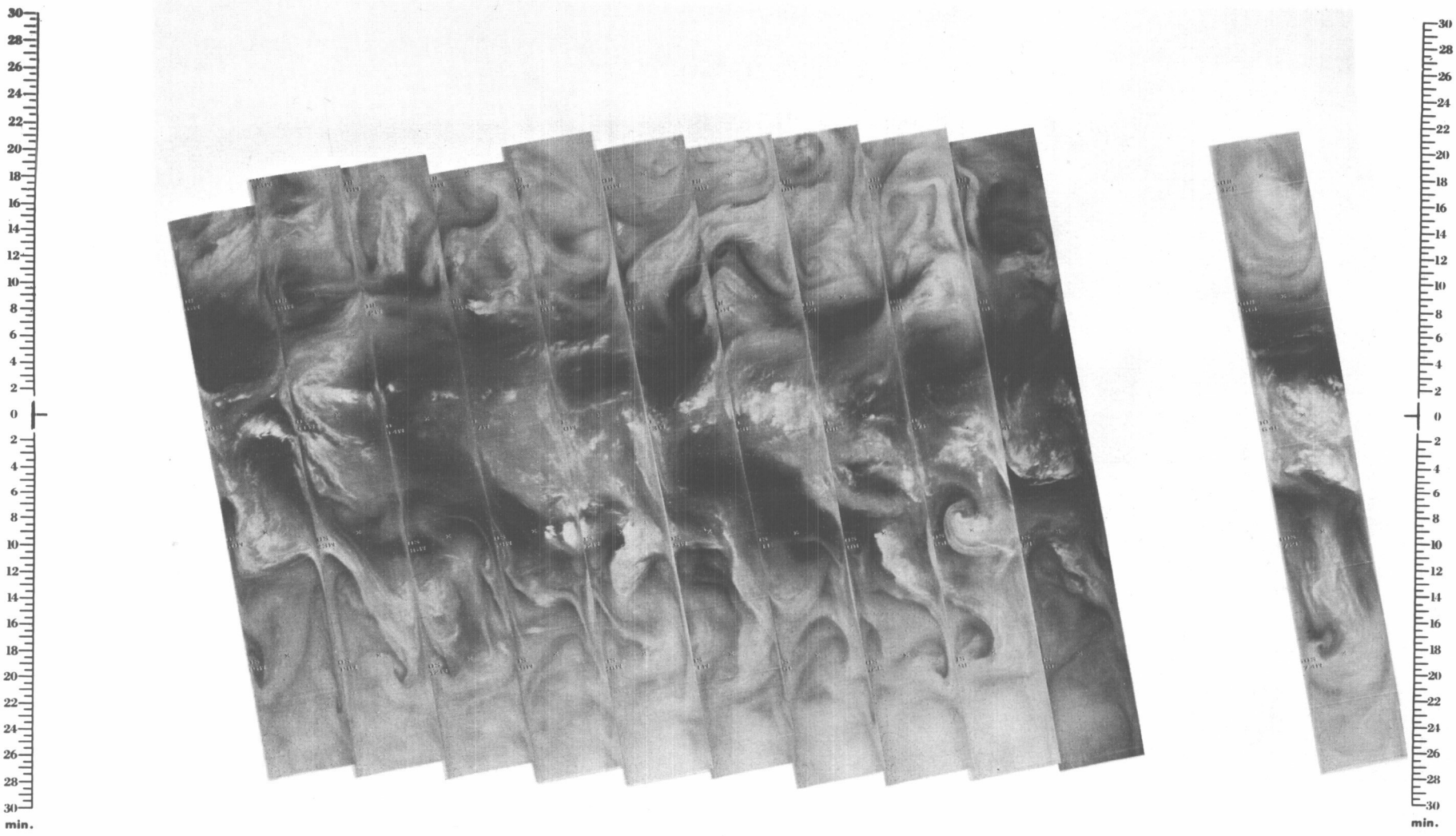
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1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097

3 MARCH 1973

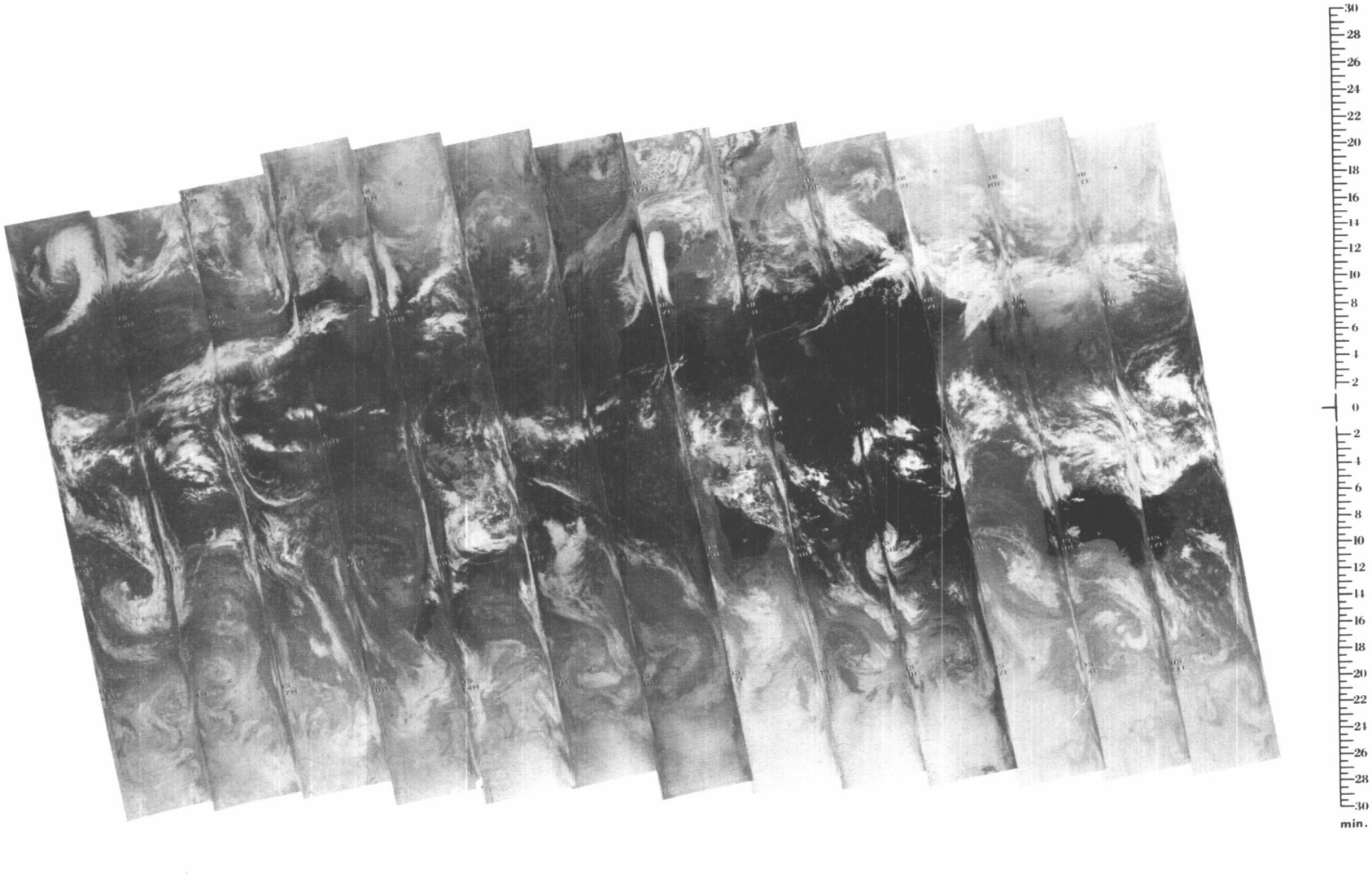
11.5 μm




1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097

3 MARCH 1973

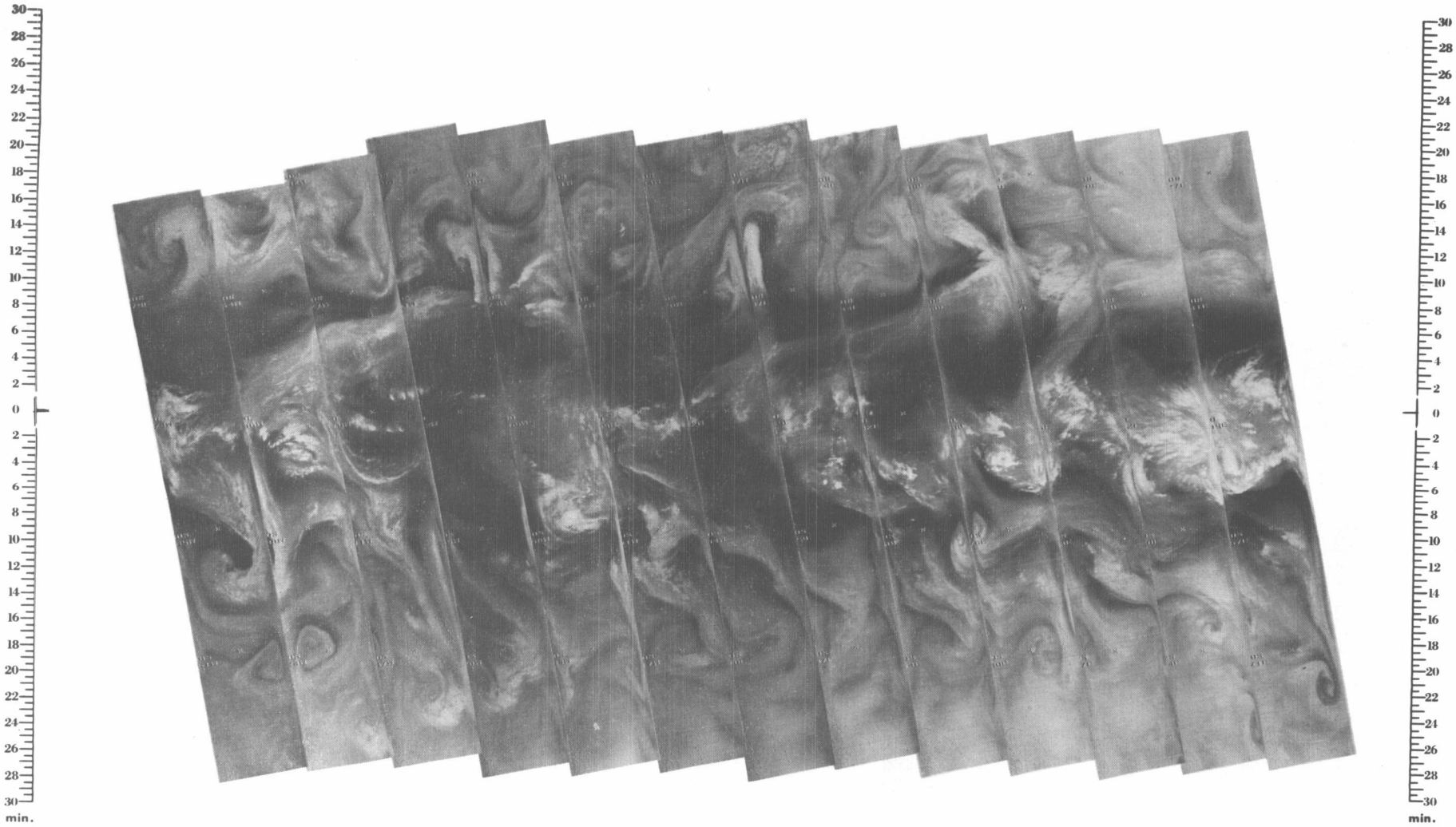
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1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111

4 MARCH 1973

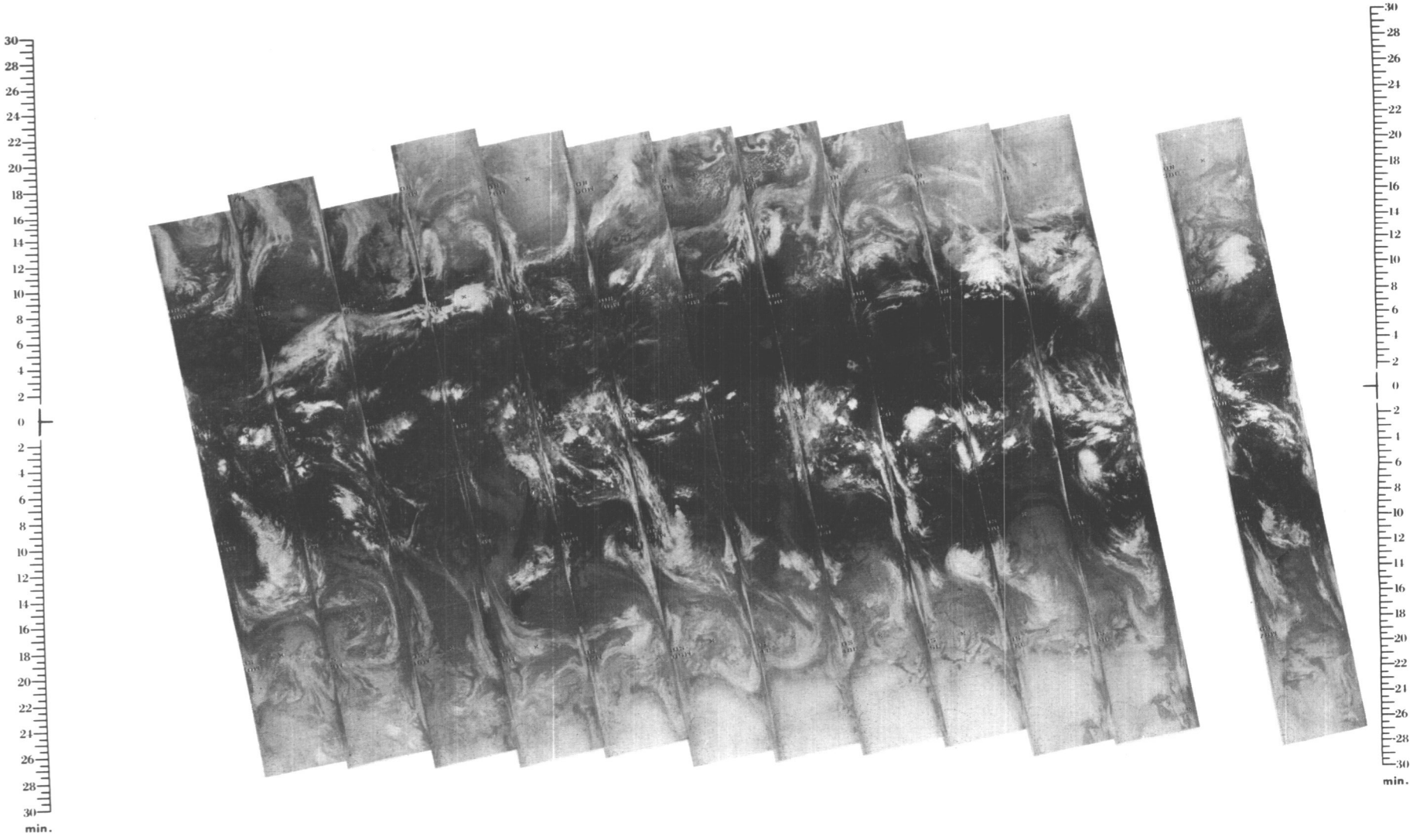
11.5 μm




1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111

4 MARCH 1973

6.7 μm




1136 1135 1134 1133 1132 1131 1130 1129 1128 1127 1126 1125 1124

5 MARCH 1973

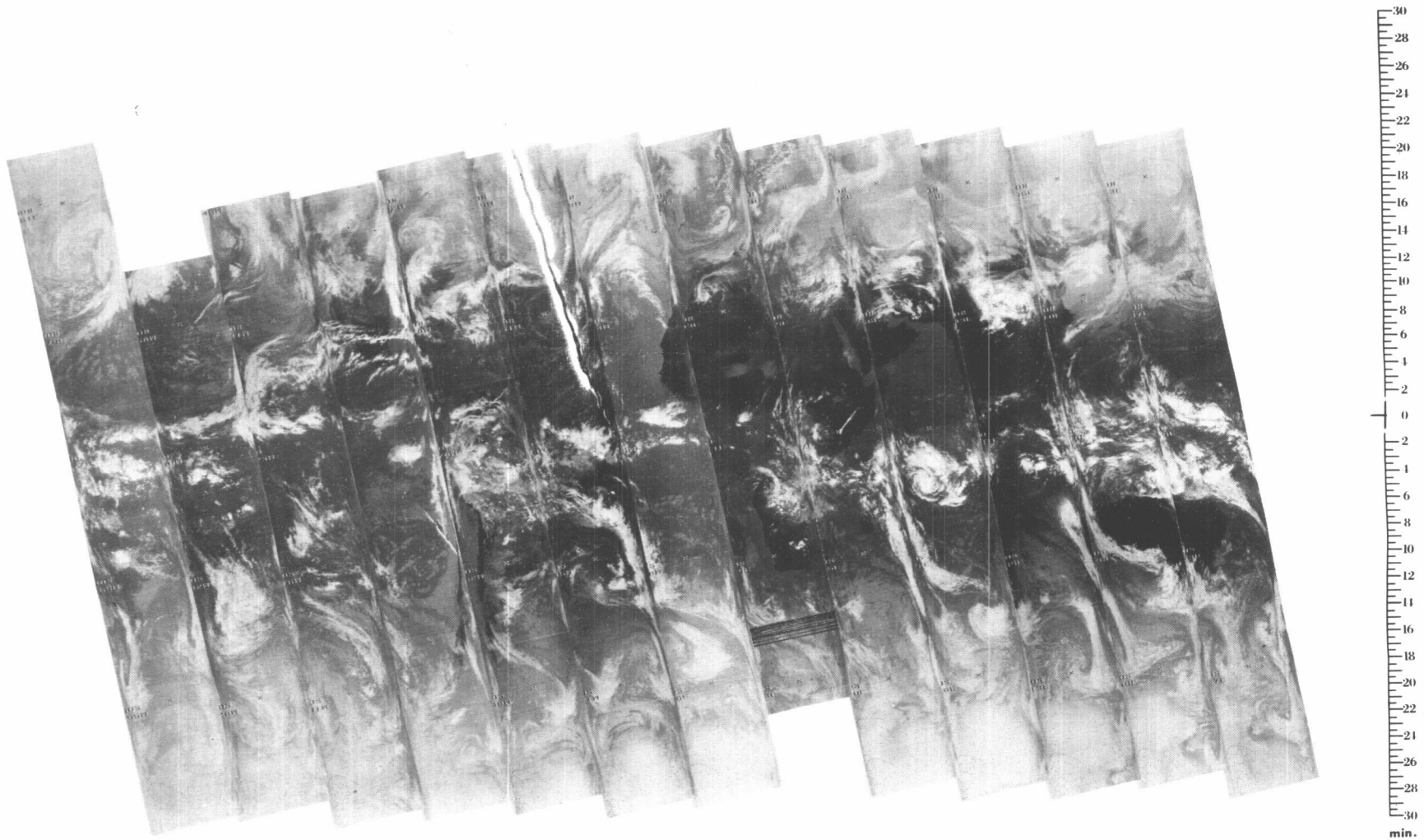
11.5 μm




1136 1135 1134 1133 1132 1131 1130 1129 1128 1127 1126 1125 1124

5 MARCH 1973

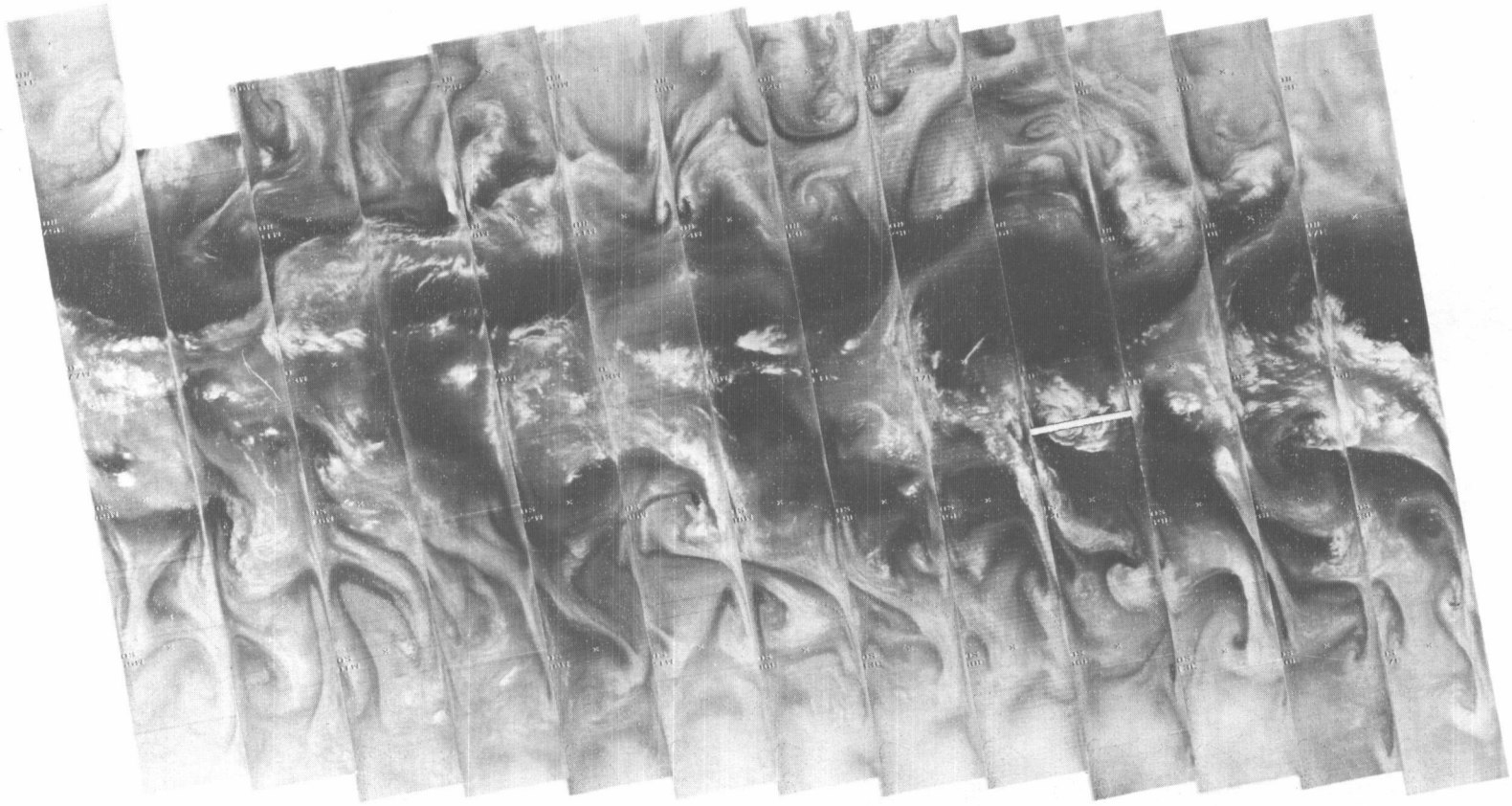
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1150 1149 1148 1147 1146 1145 1144 1143 1142 1141 1140 1139 1138 1137

6 MARCH 1973

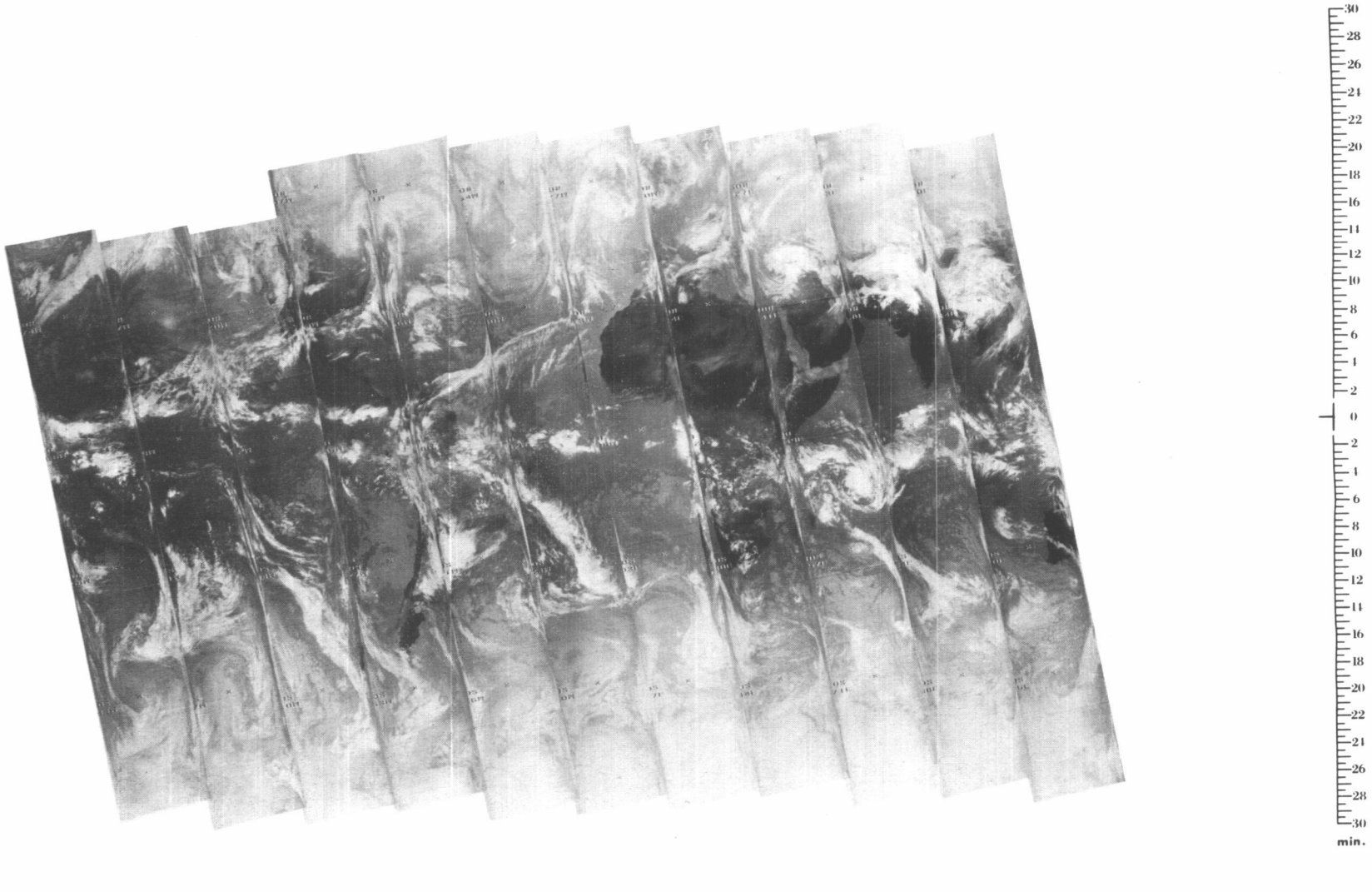
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1150 1149 1148 1147 1146 1145 1144 1143 1142 1141 1140 1139 1138 1137

6 MARCH 1973

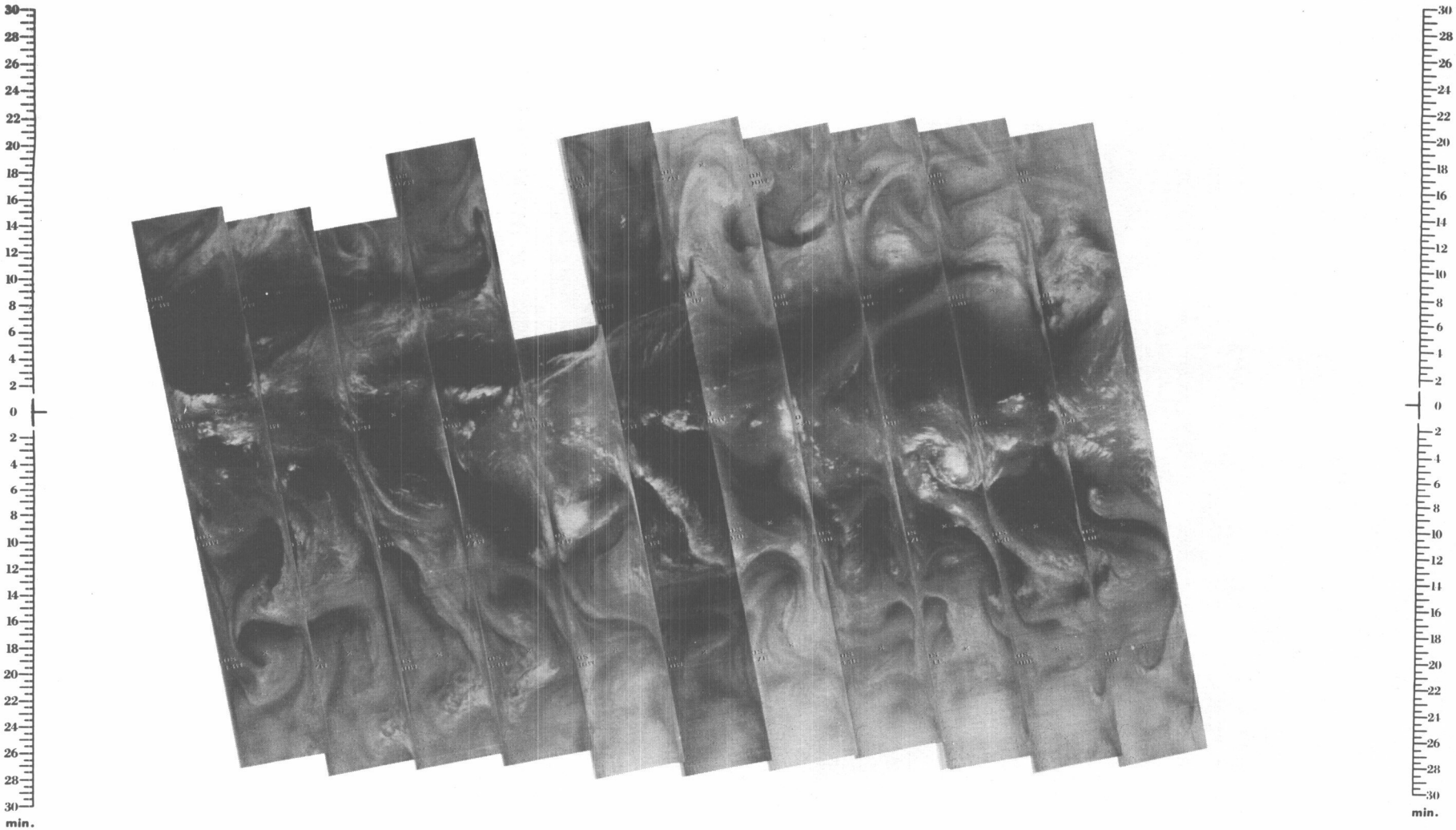
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1163 1162 1161 1160 1159 1158 1157 1156 1155 1154 1153 1152 1151

7 MARCH 1973

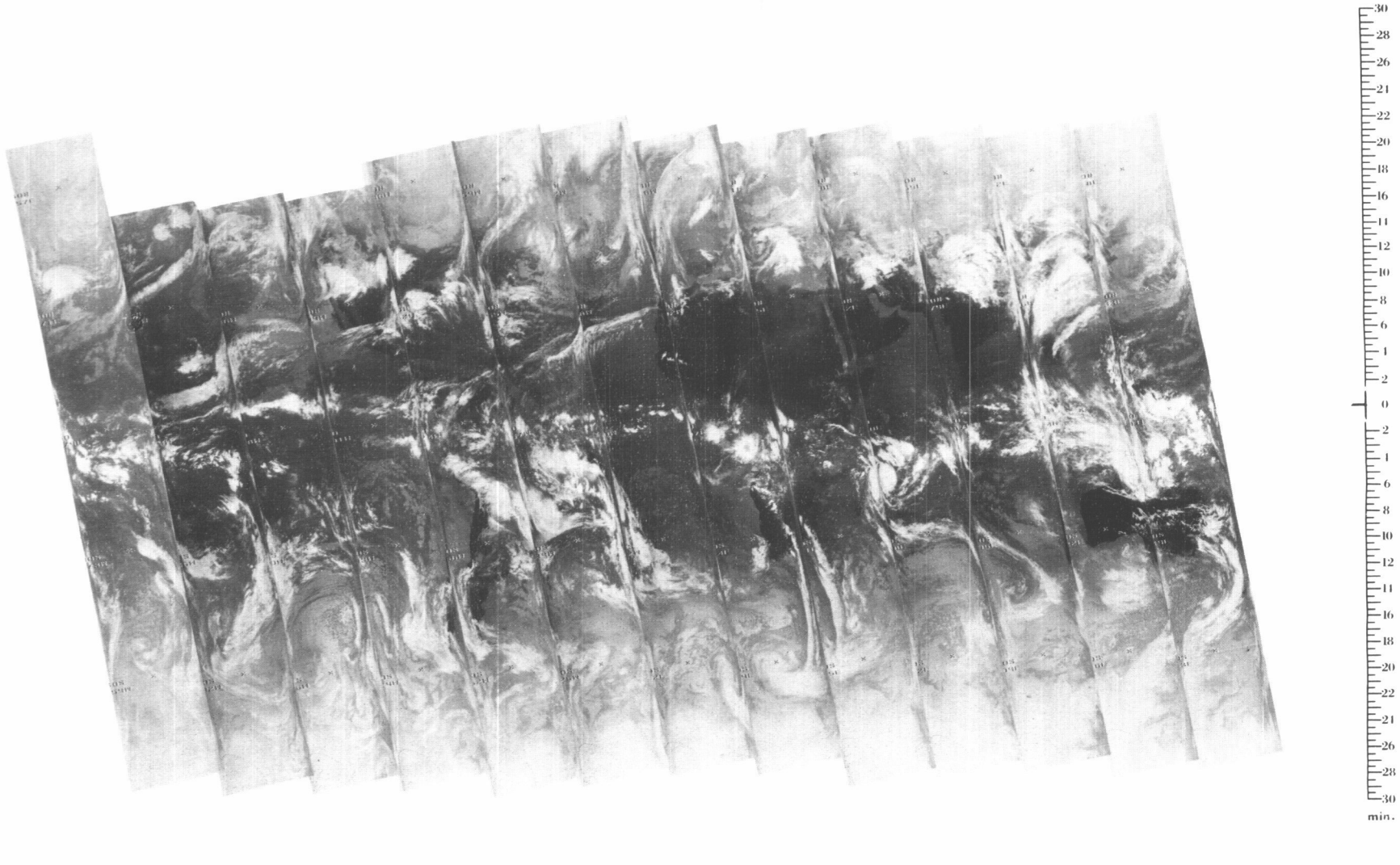
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1163 1162 1161 1160 1159 1158 1157 1156 1155 1154 1153 1152 1151

7 MARCH 1973

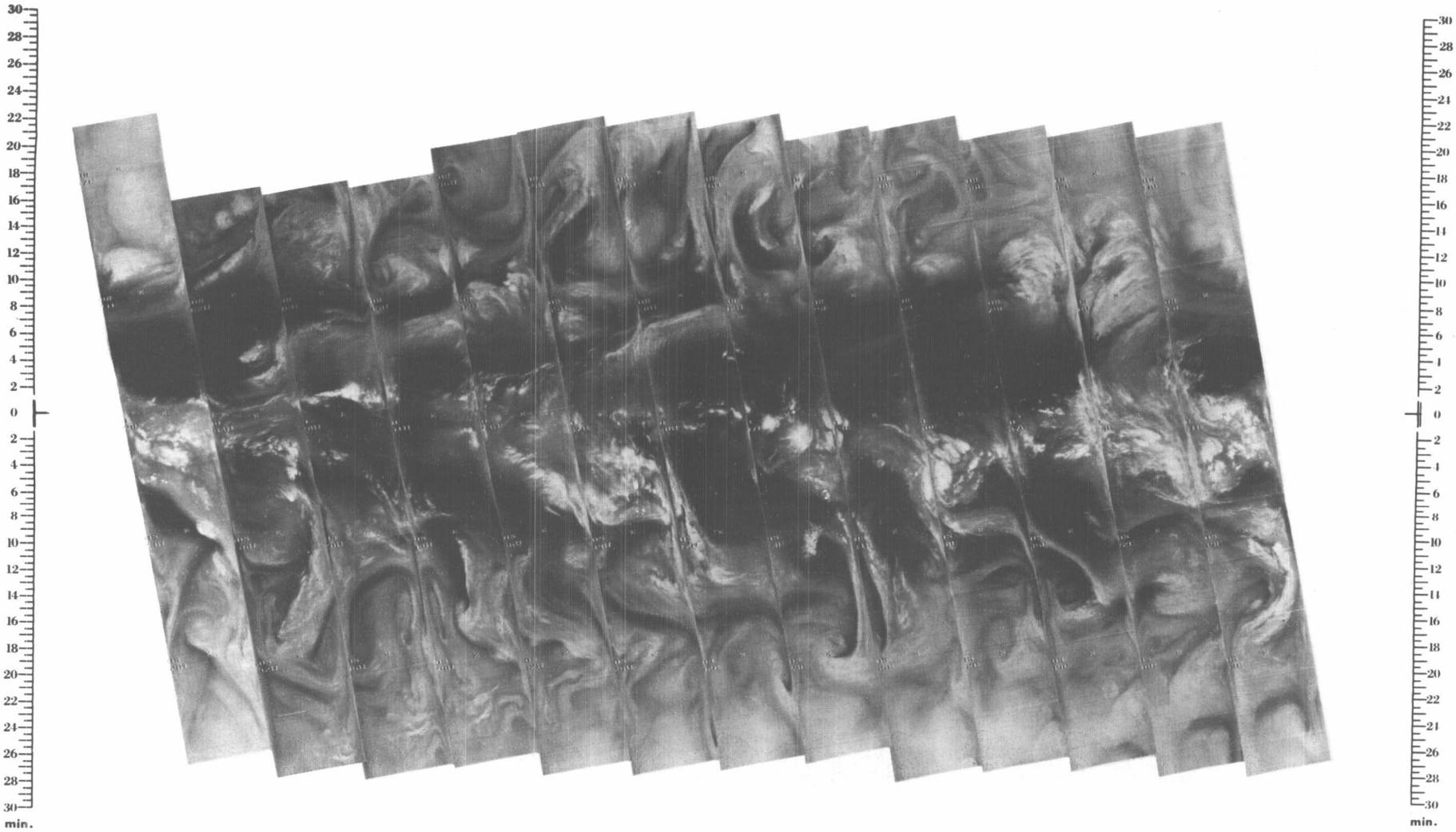
6.7 μm



1177 1176 1175 1174 1173 1172 1171 1170 1169 1168 1167 1166 1165 1164

8 MARCH 1973

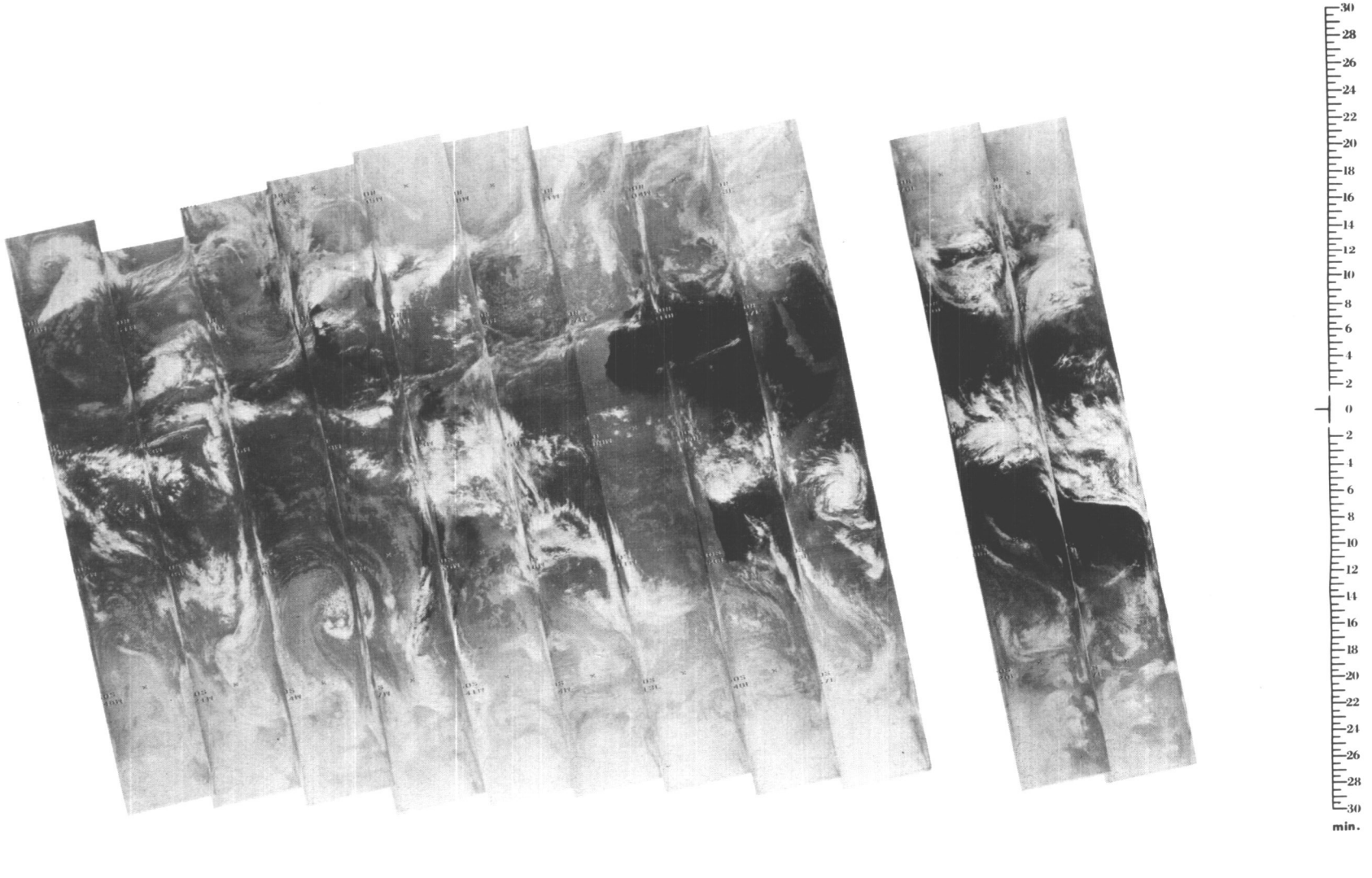
11.5 μm




1177 1176 1175 1174 1173 1172 1171 1170 1169 1168 1167 1166 1165 1164

8 MARCH 1973

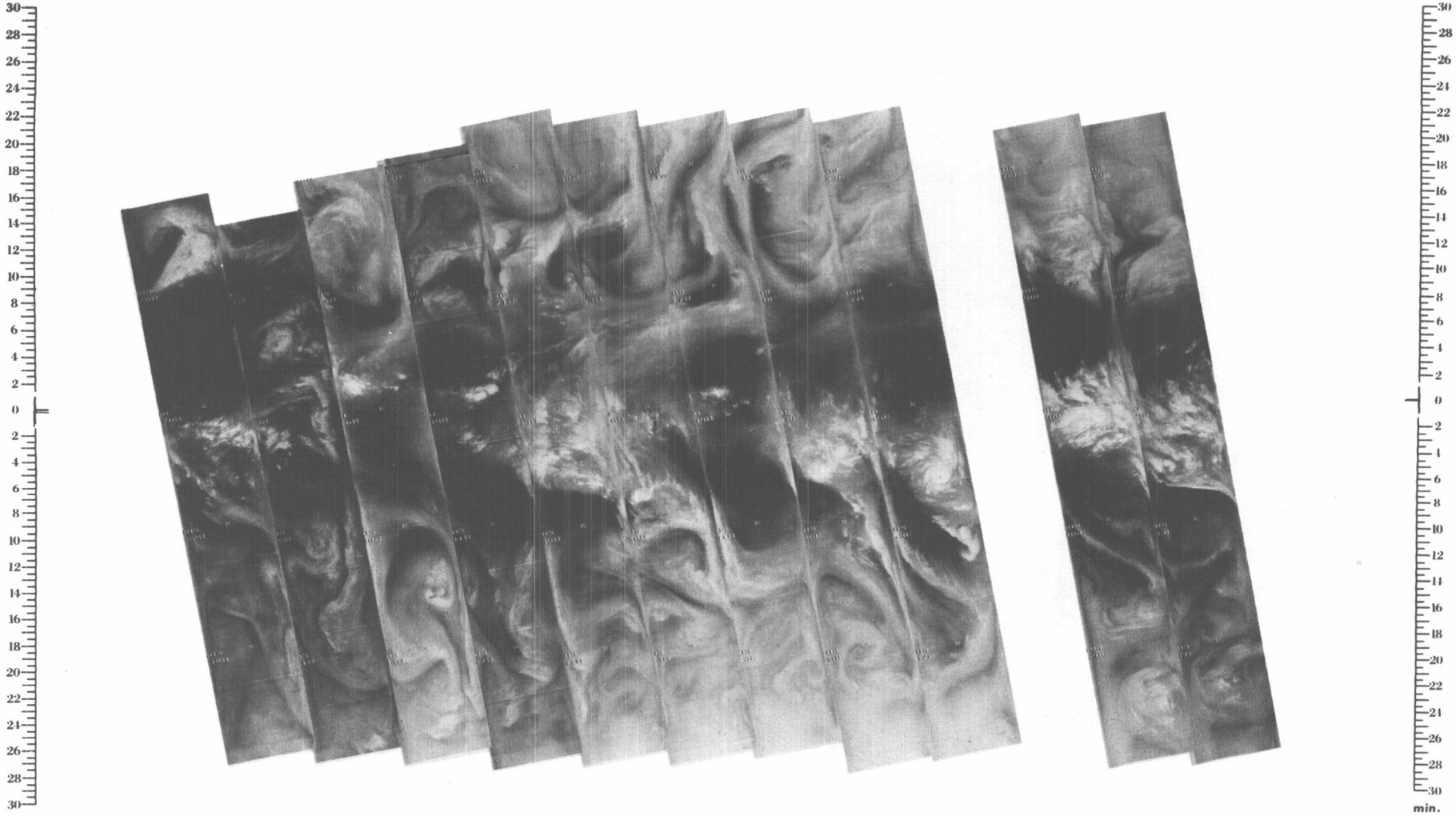
6.7 μm




1190 1189 1188 1187 1186 1185 1184 1183 1182 1181 1180 1179 1178

9 MARCH 1973

11.5 μm




1190 1189 1188 1187 1186 1185 1184 1183 1182 1181 1180 1179 1178

9 MARCH 1973

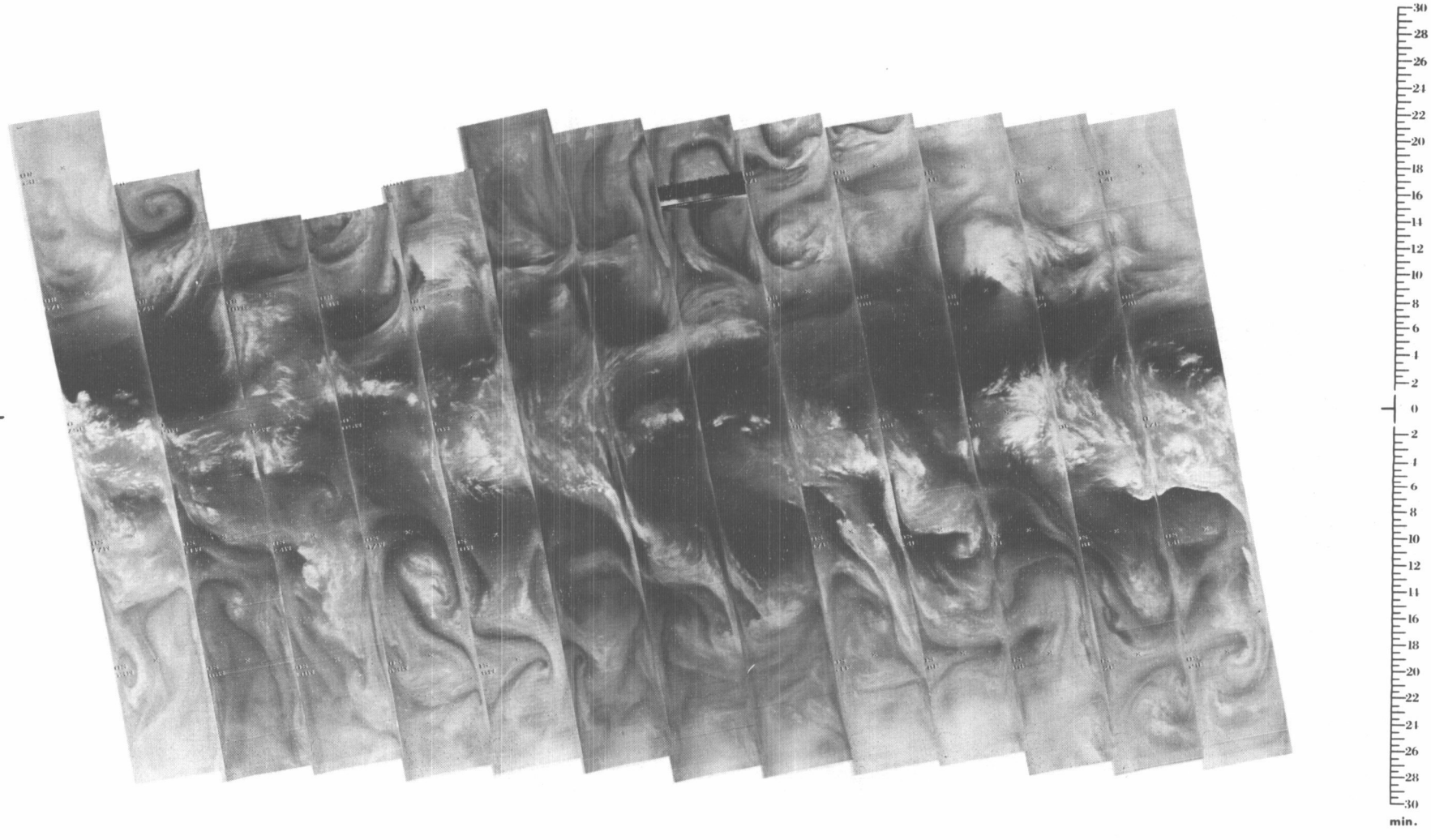
6.7 μm




1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191

10 MARCH 1973

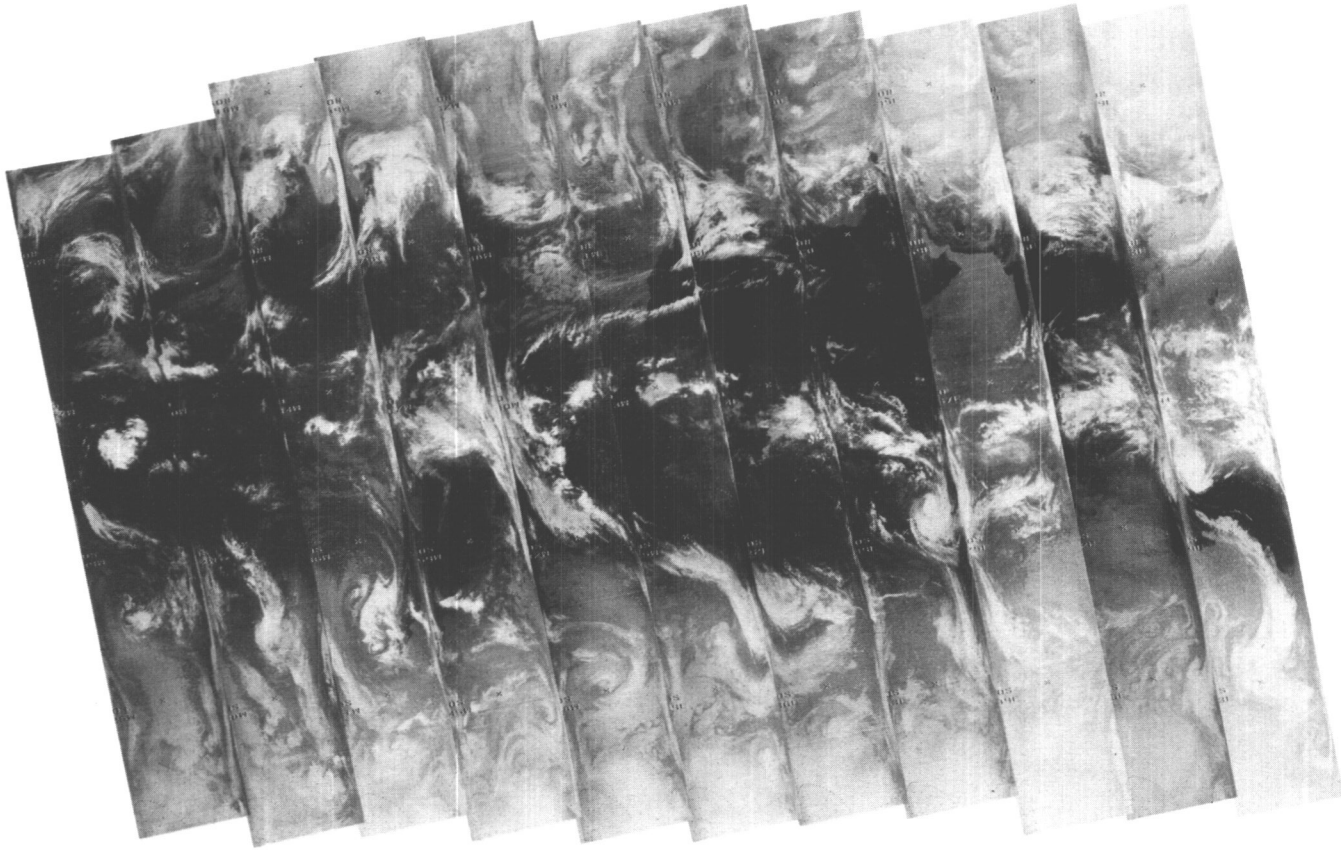
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1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191

10 MARCH 1973

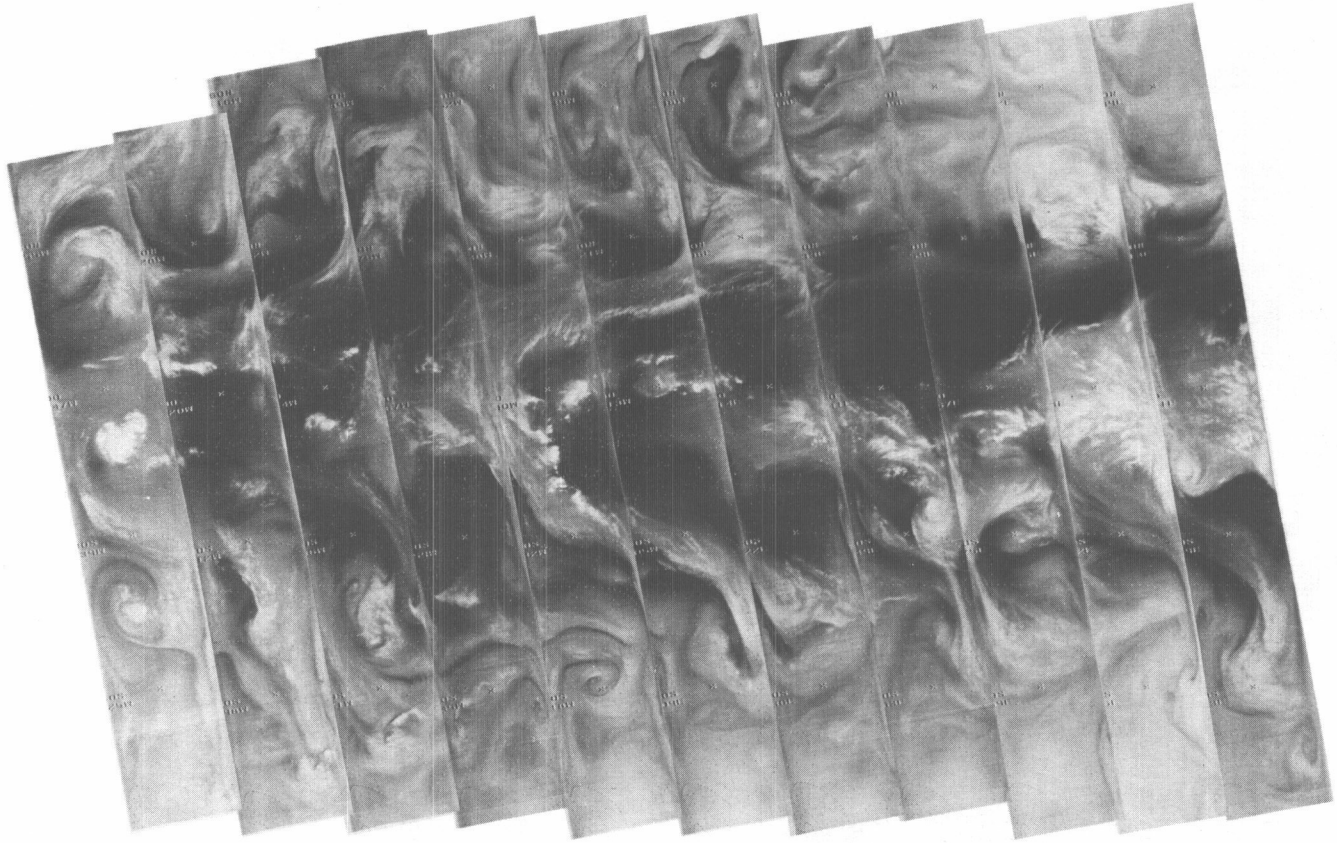
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1217 1216 1215 1214 1213 1212 1211 1210 1209 1208 1207 1206 1205

11 MARCH 1973

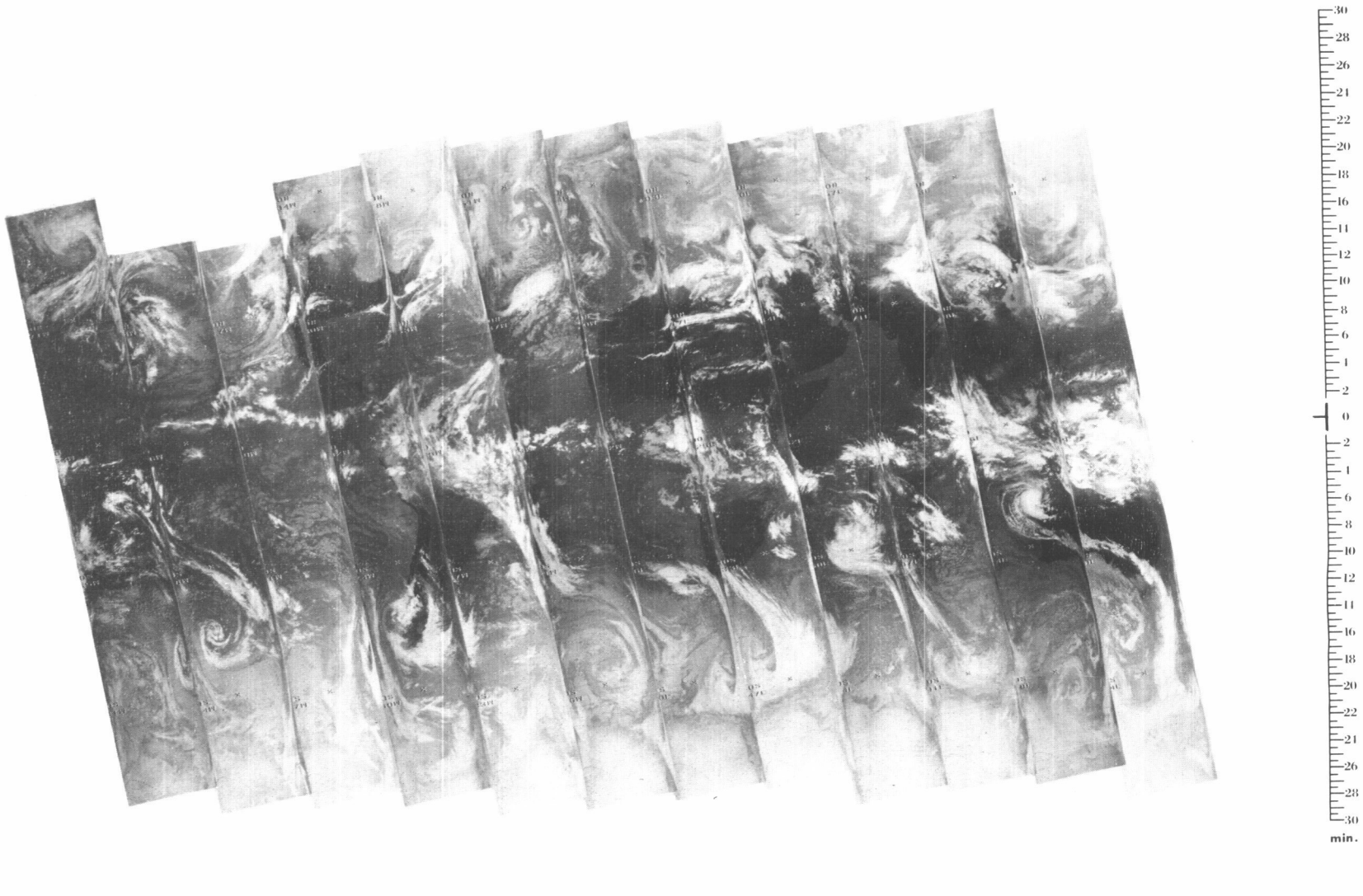
11.5 μm



1217 1216 1215 1214 1213 1212 1211 1210 1209 1208 1207 1206 1205

11 MARCH 1973

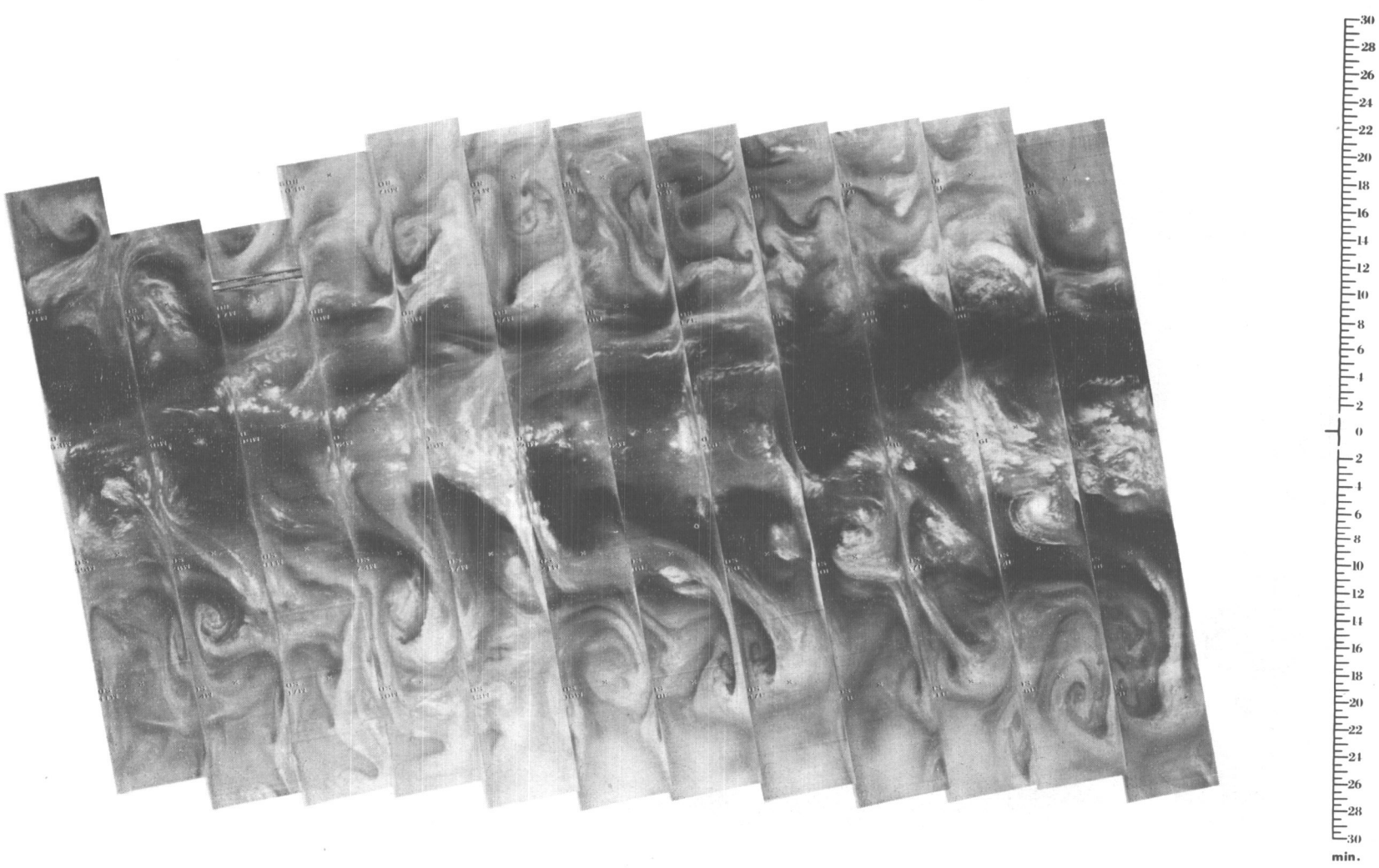
6.7 μm



1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218

12 MARCH 1973

11.5 μm




1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218

12 MARCH 1973

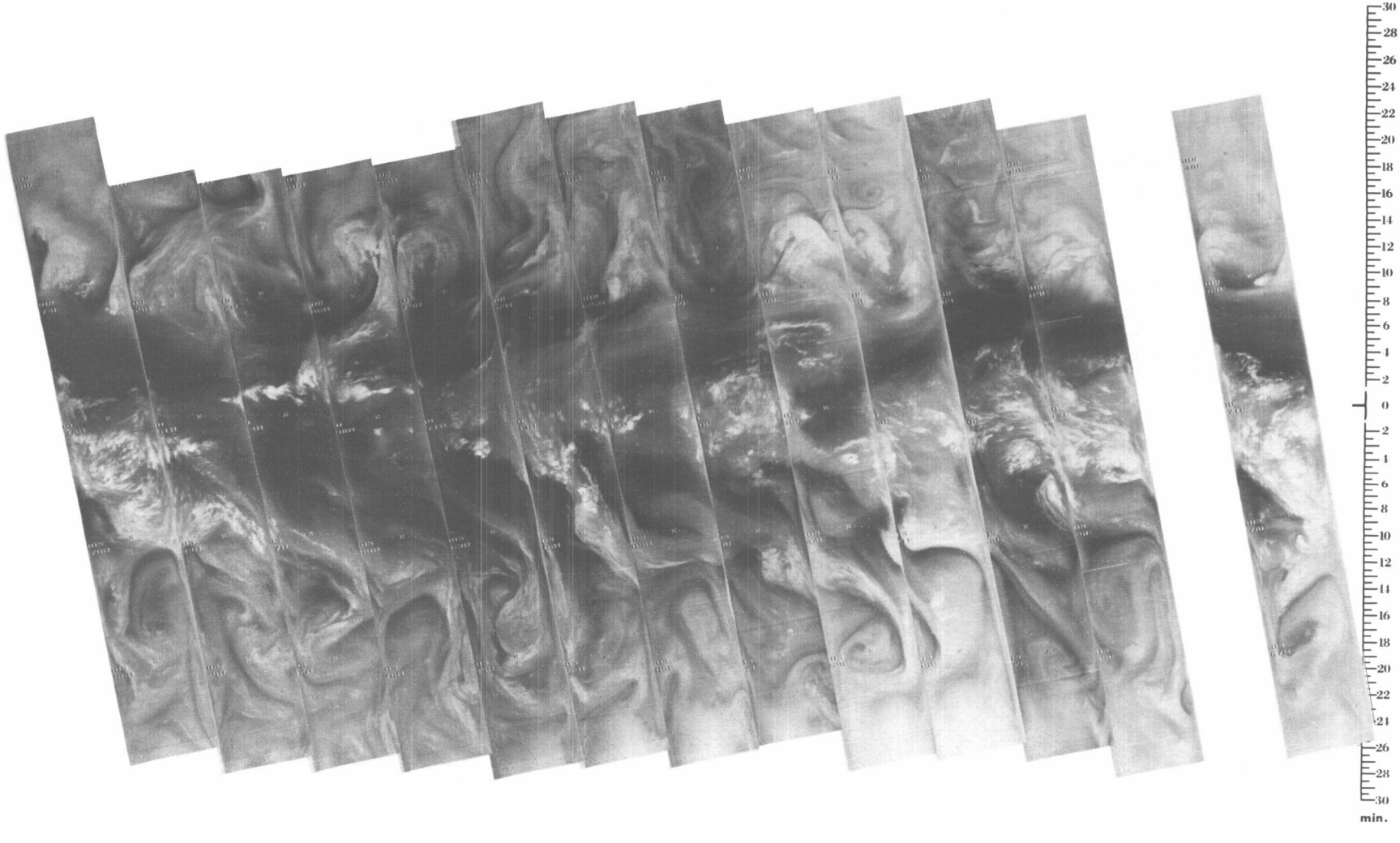
6.7 μm




1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231

13 MARCH 1973

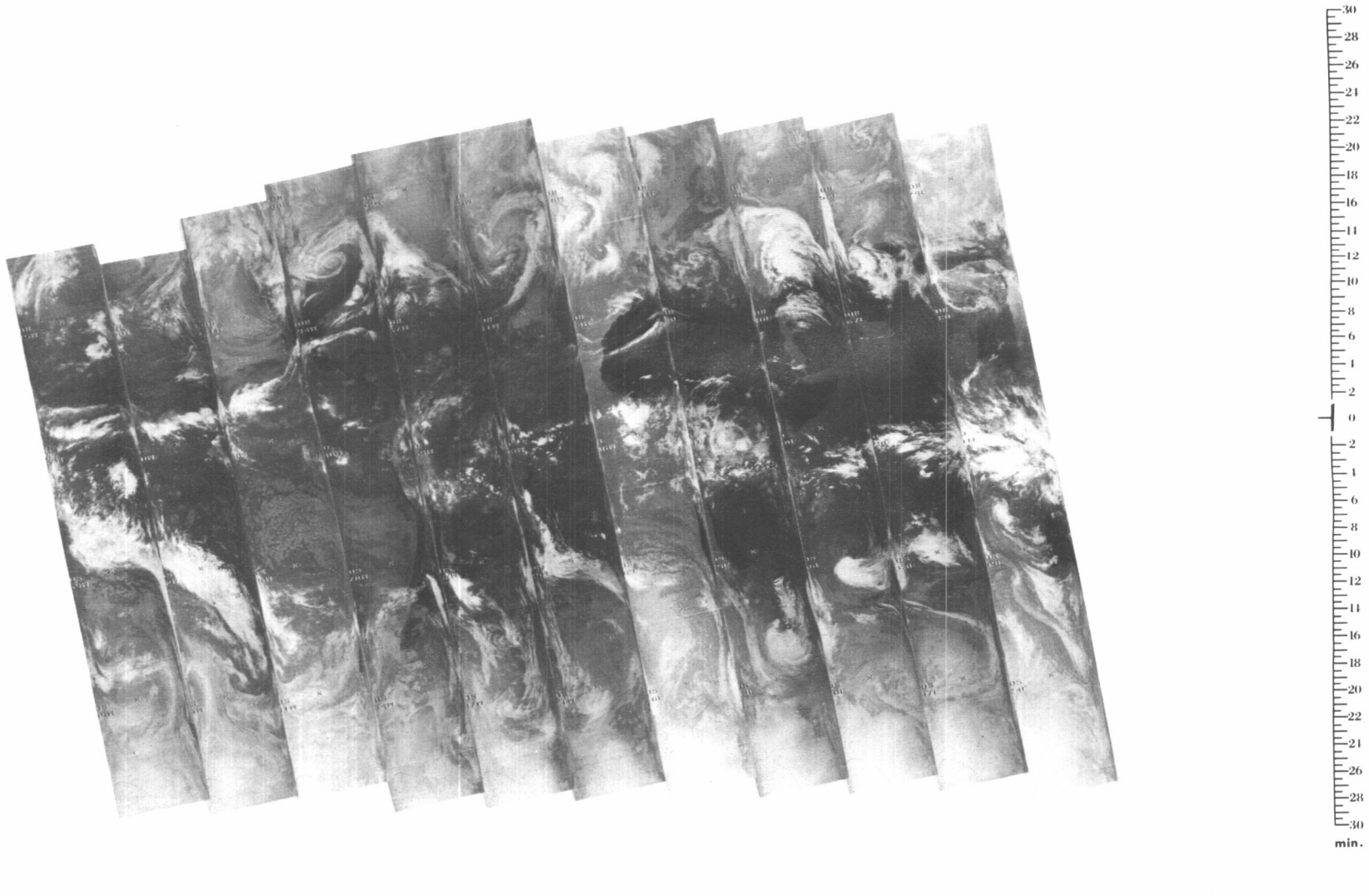
11.5 μm




1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231

13 MARCH 1973

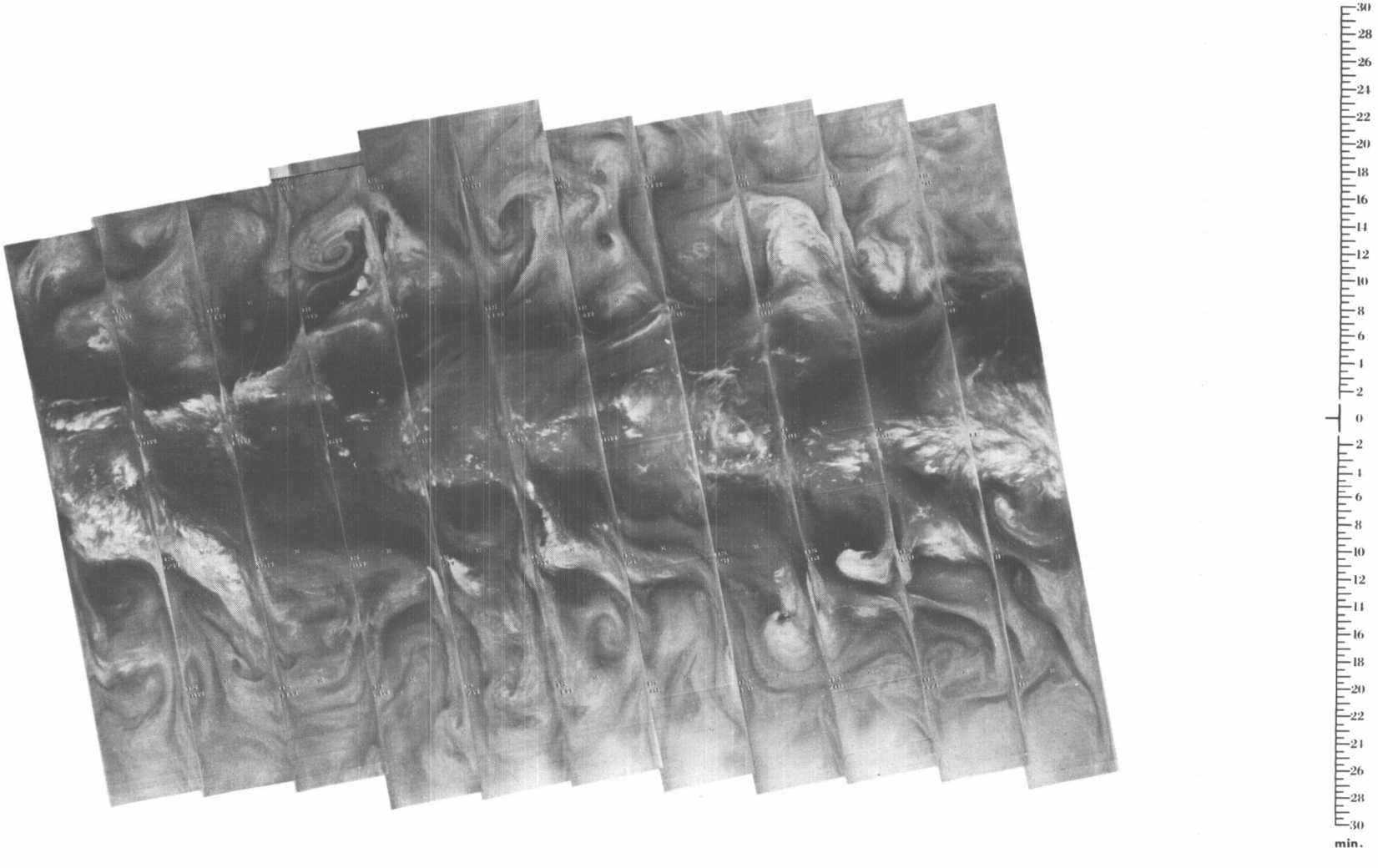
6.7 μm




1257 1256 1255 1254 1253 1252 1251 1250 1249 1248 1247 1246 1245

14 MARCH 1973

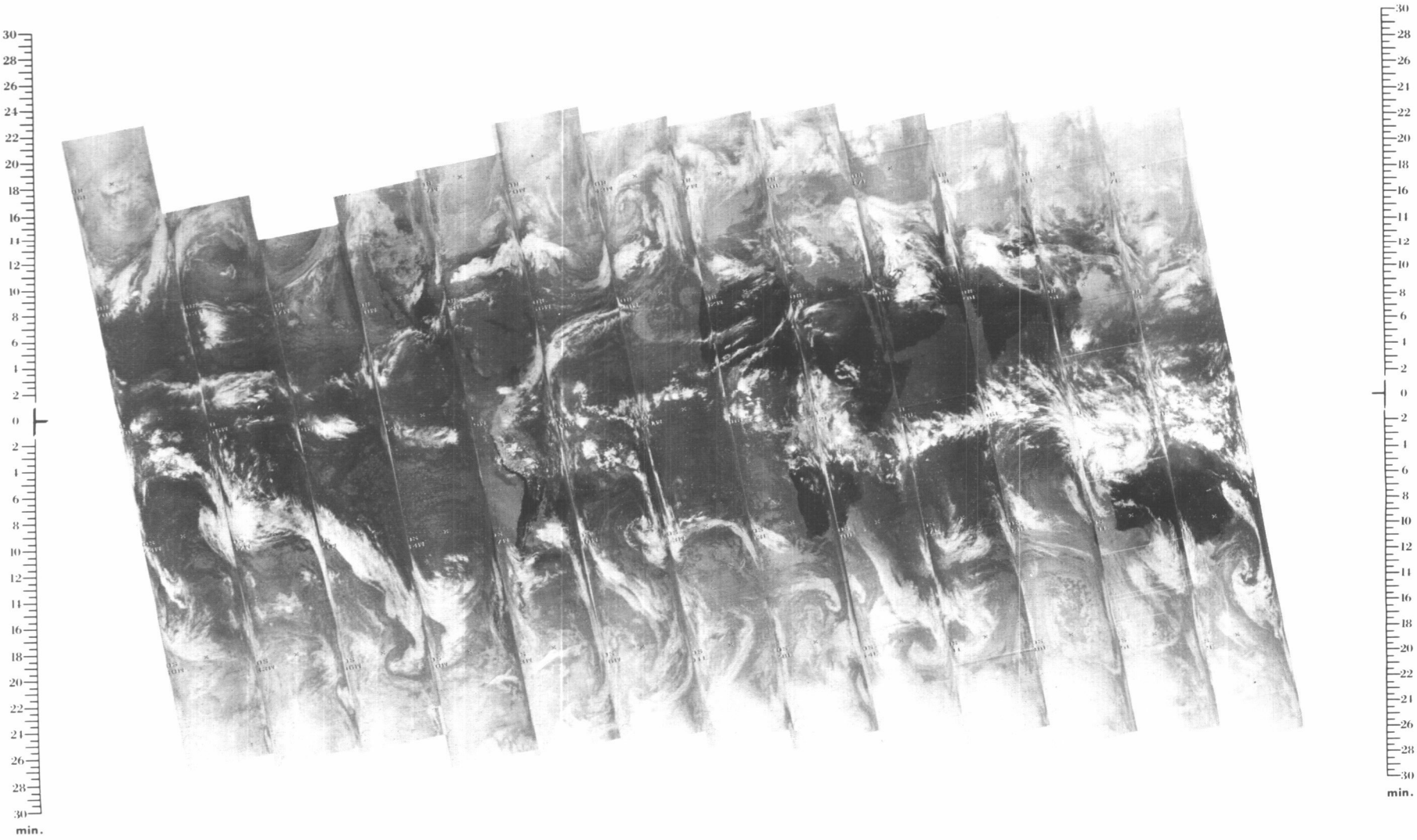
11.5 μm




1257 1256 1255 1254 1253 1252 1251 1250 1249 1248 1247 1246 1245

14 MARCH 1973

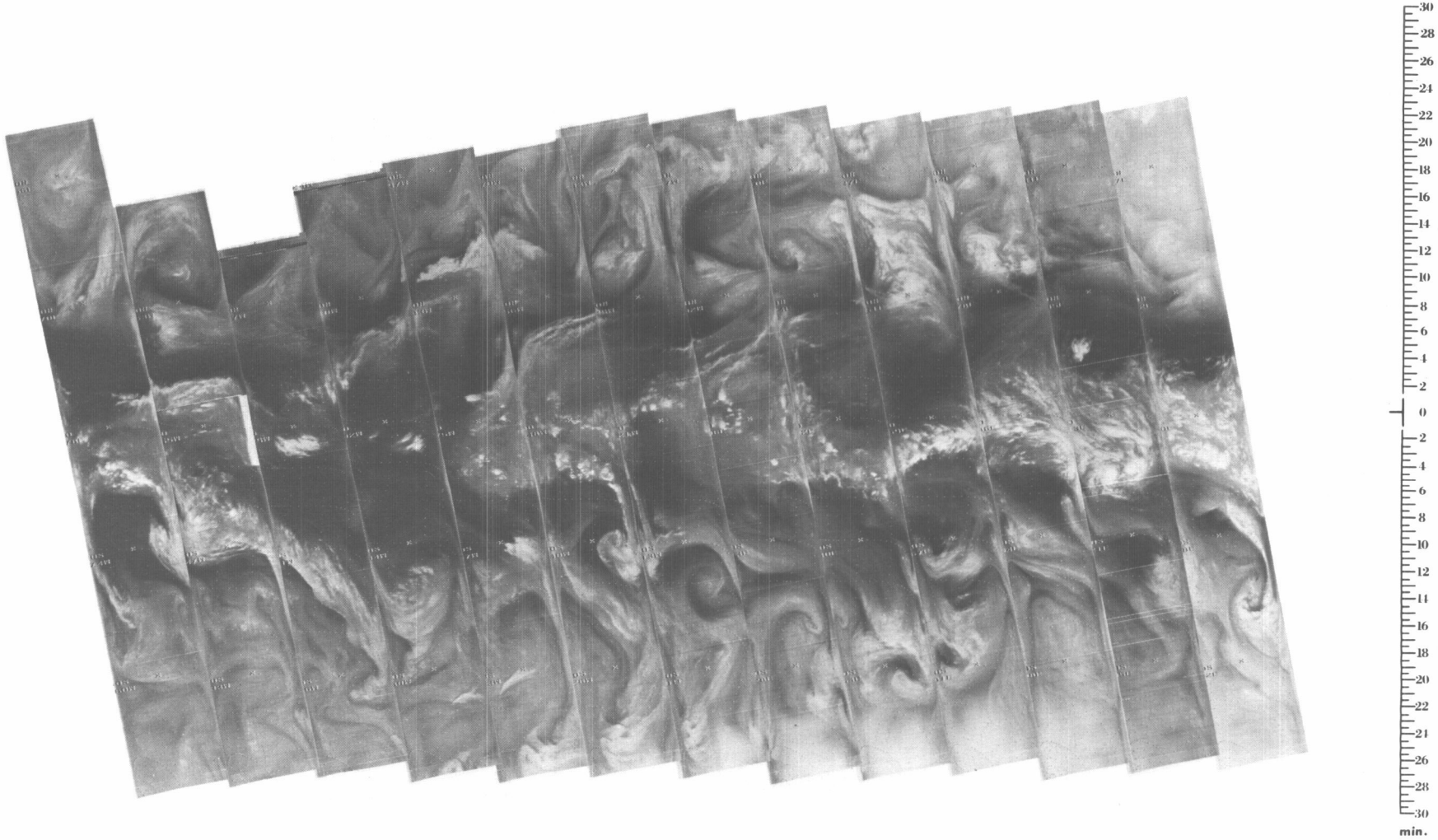
6.7 μm




1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258

15 MARCH 1973

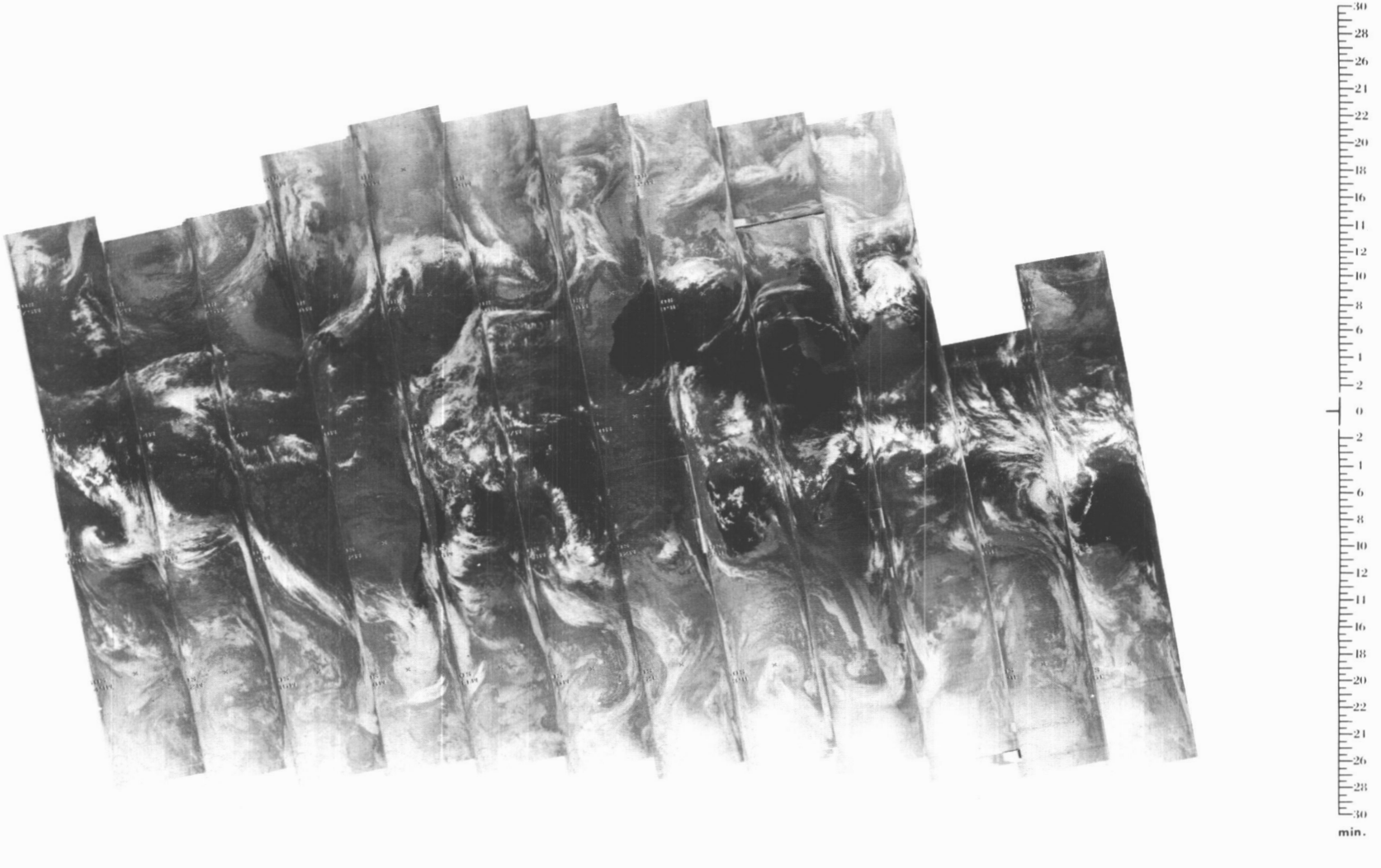
11.5 μm




1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258

15 MARCH 1973

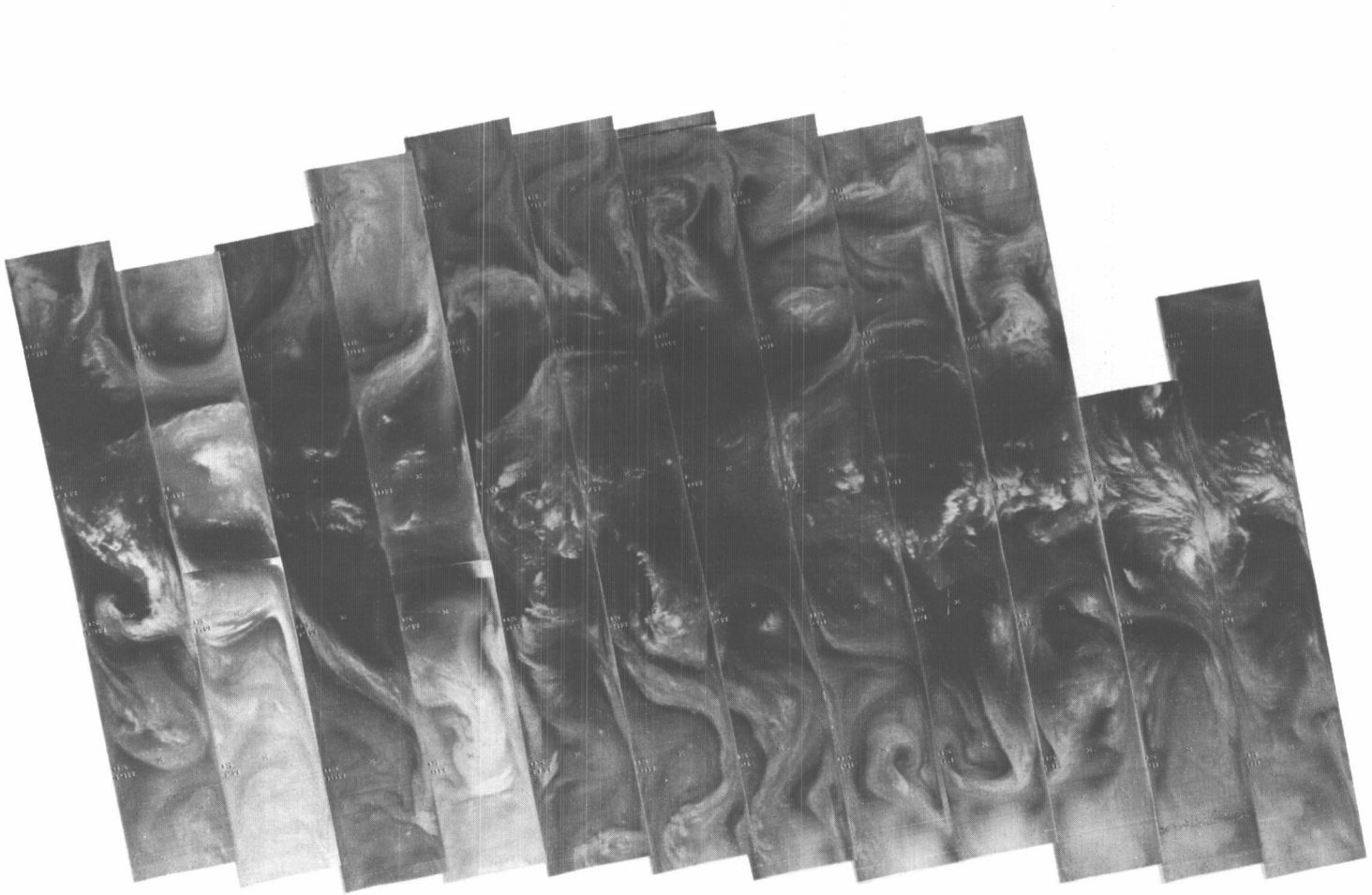
6.7 μm




1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272

16 MARCH 1973

11.5 μm



1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272

16 MARCH 1973

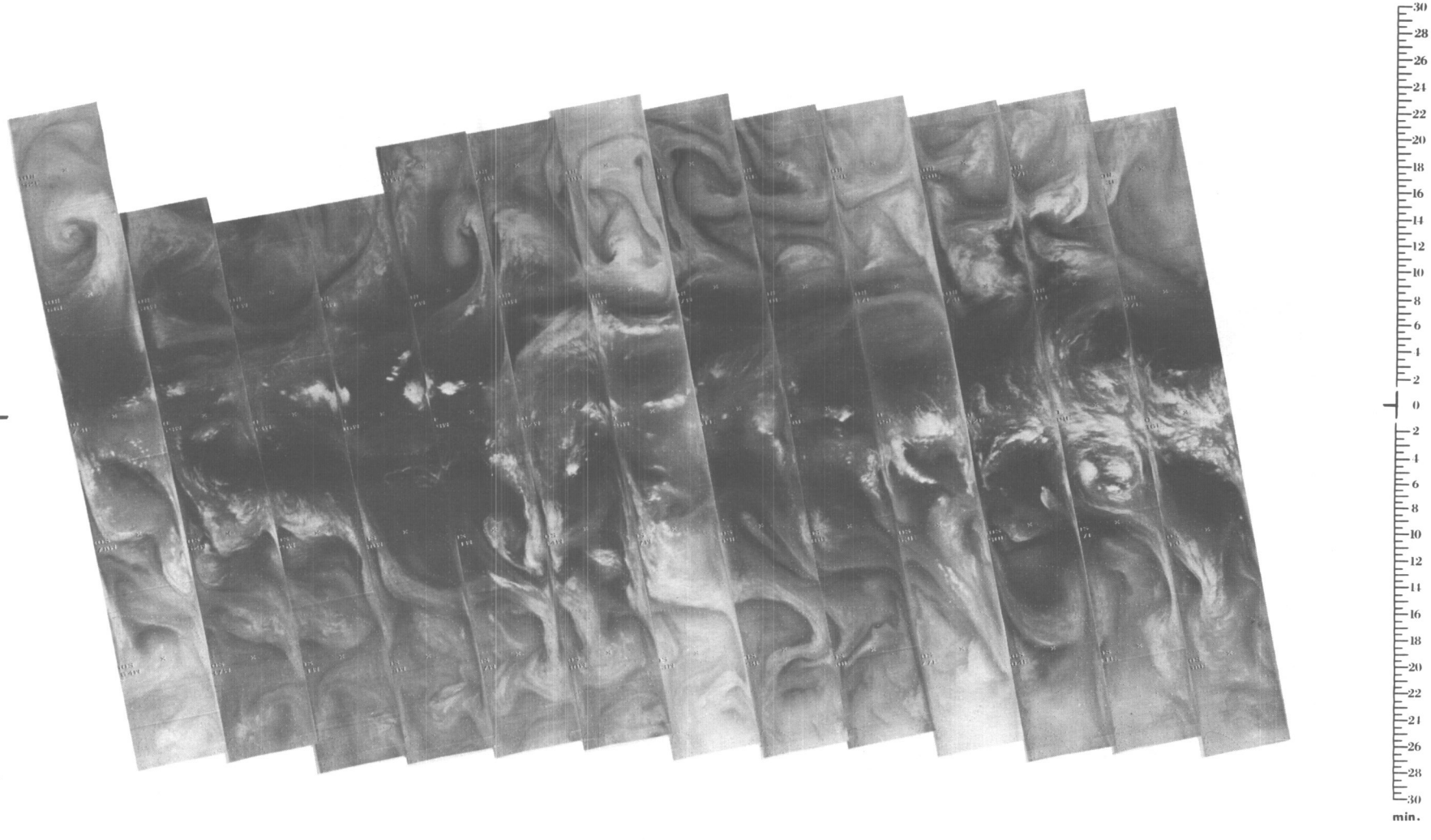
6.7 μm




1298 1297 1296 1295 1294 1293 1292 1291 1290 1289 1288 1287 1286 1285

17 MARCH 1973

11.5 μm

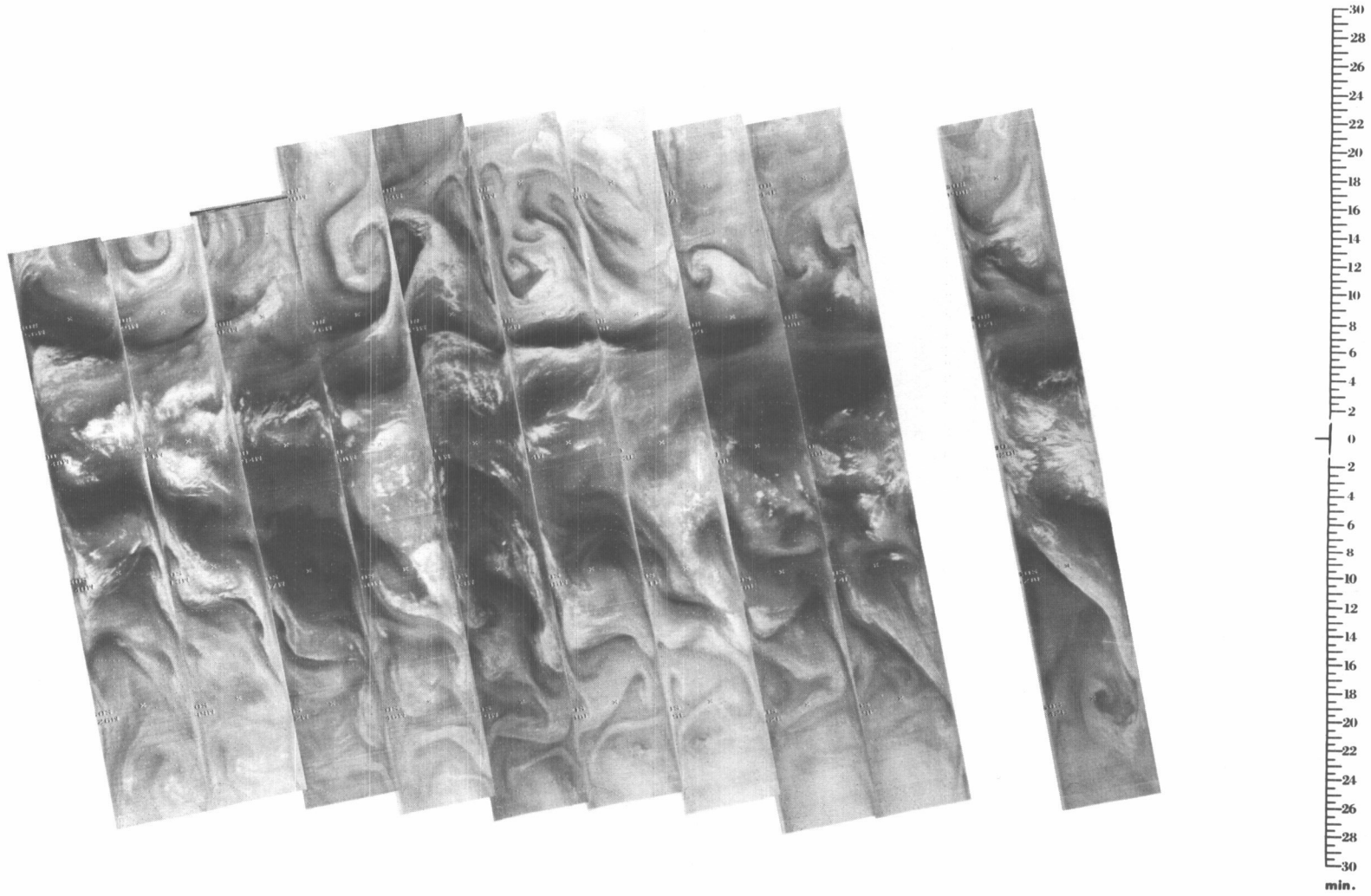



1298 1297 1296 1295 1294 1293 1292 1291 1290 1289 1288 1287 1286 1285

17 MARCH 1973

6.7 μm

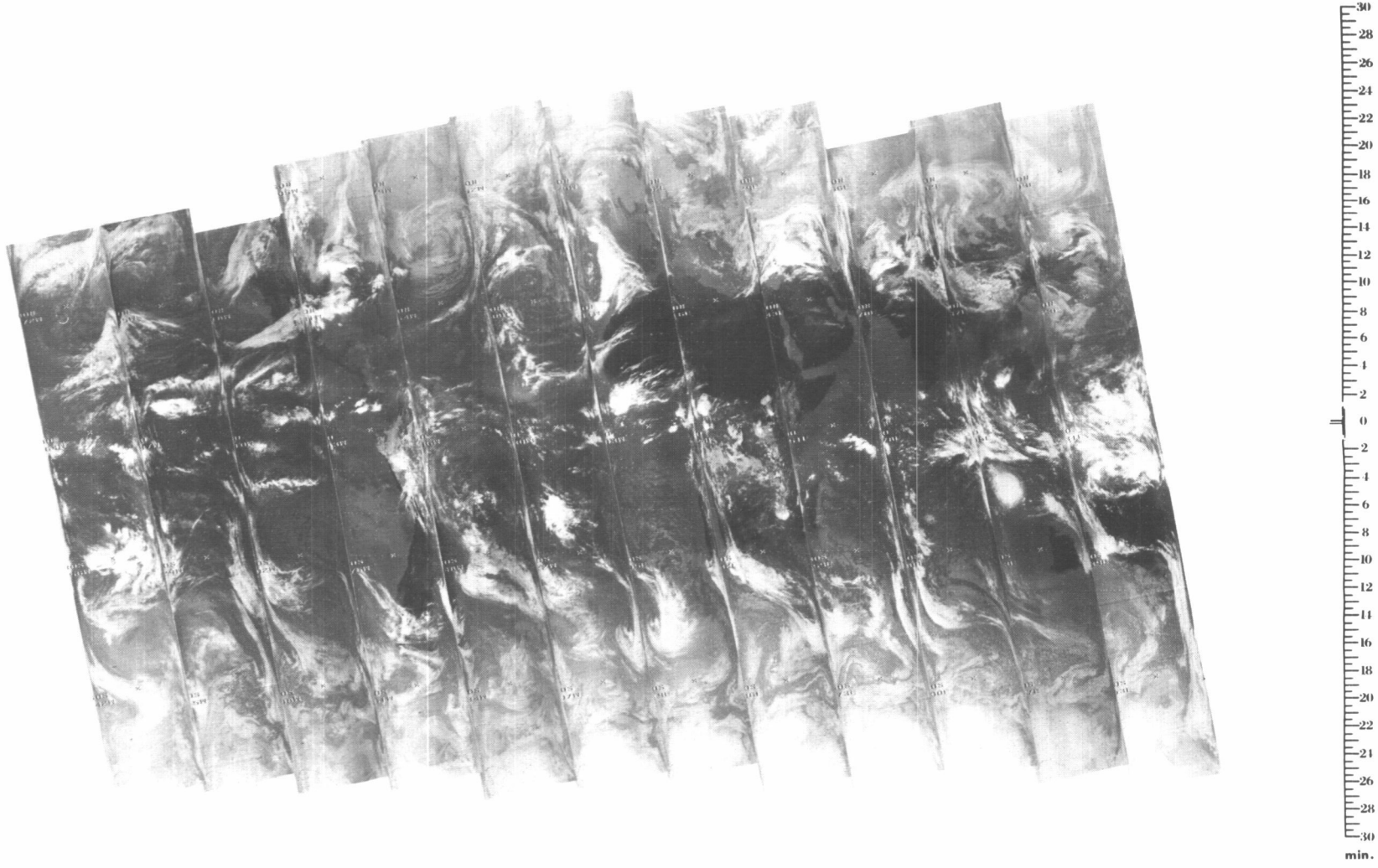
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1311 1310 1309 1308 1307 1306 1305 1304 1303 1302 1301 1300 1299
18 MARCH 1973
11.5 μm




1311 1310 1309 1308 1307 1306 1305 1304 1303 1302 1301 1300 1299

18 MARCH 1973

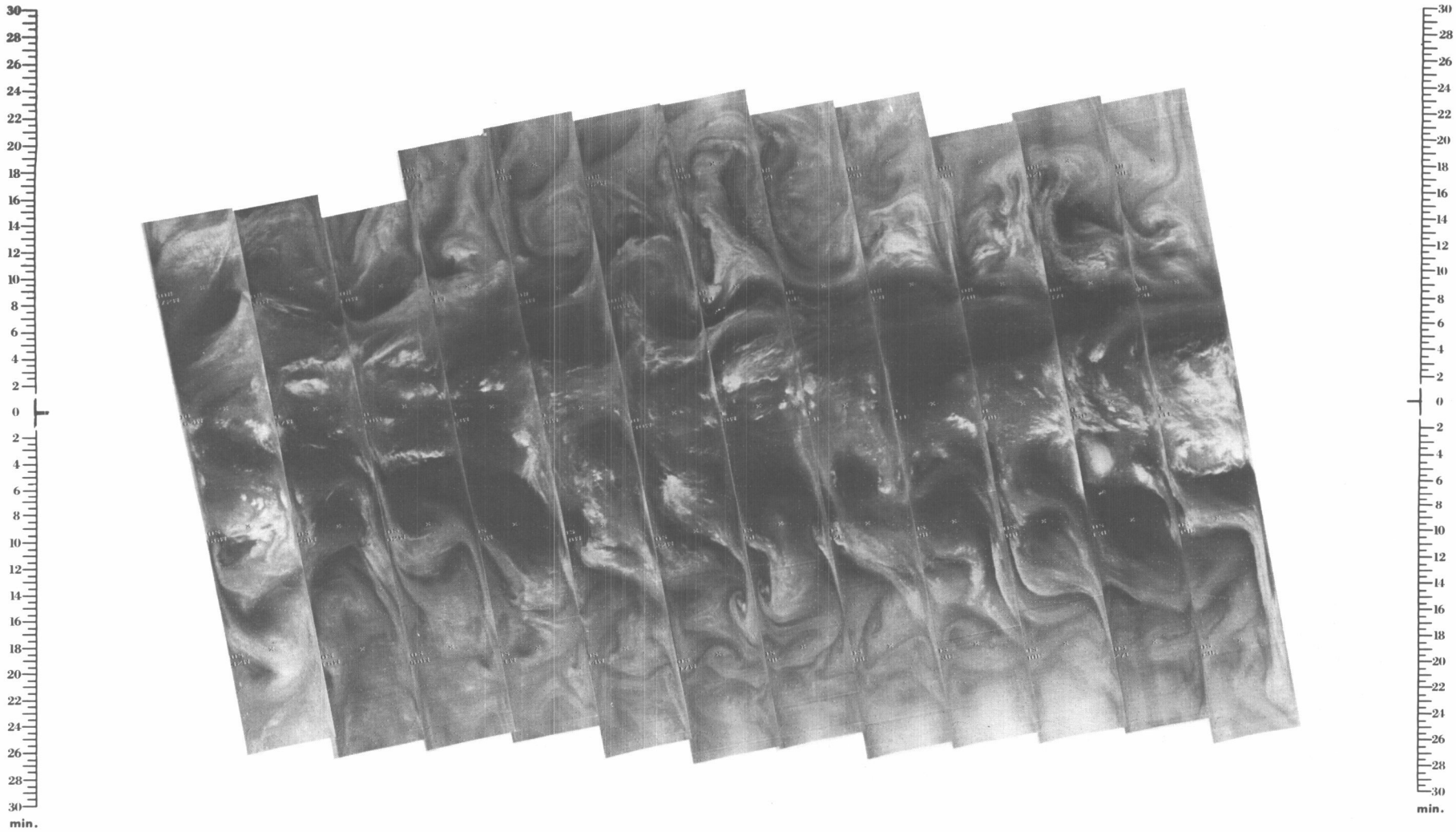
6.7 μm




1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312

19 MARCH 1973

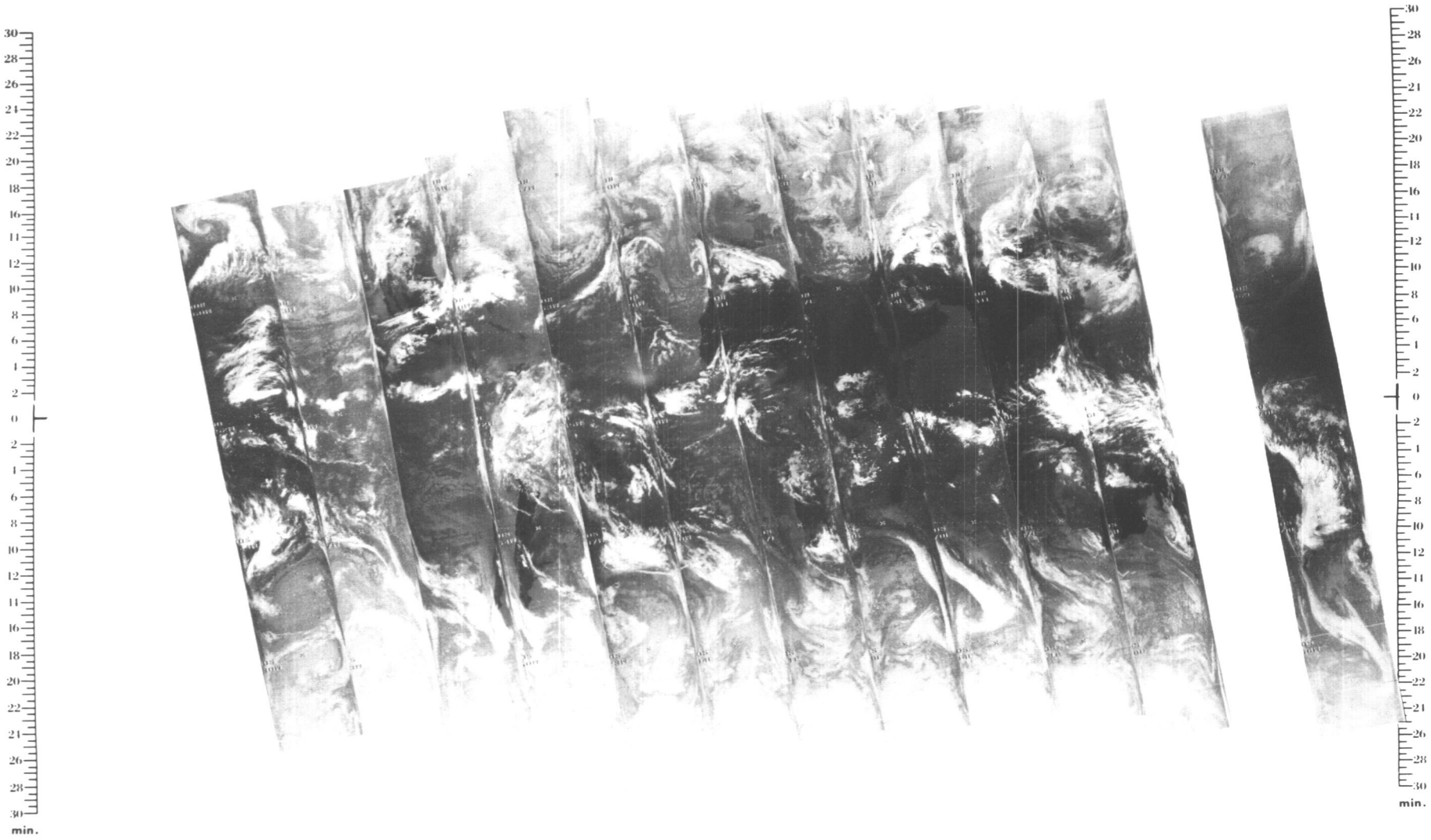
11.5 μm




1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312

19 MARCH 1973

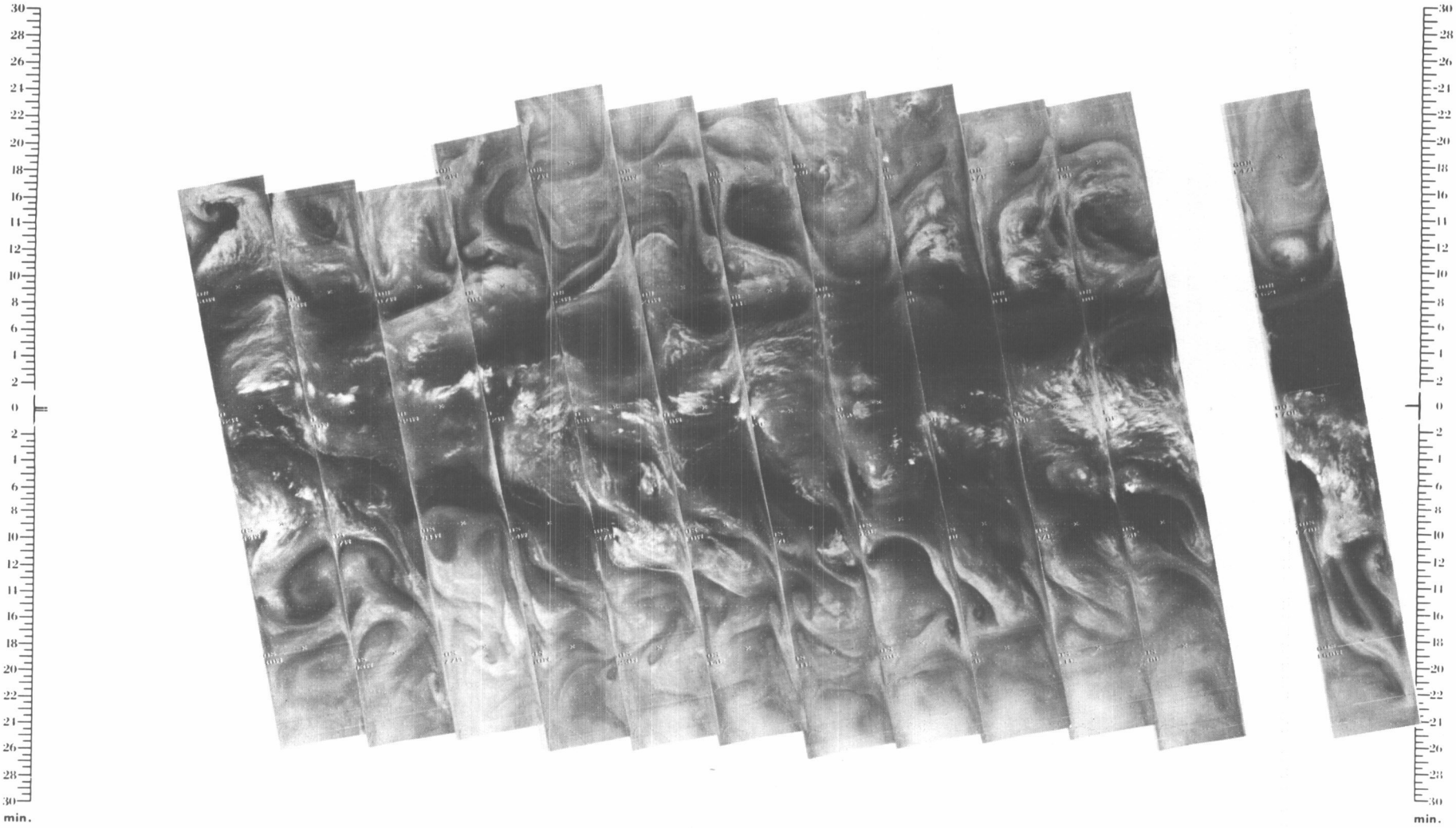
6.7 μm




1338 1337 1336 1335 1334 1333 1332 1331 1330 1329 1328 1327 1326 1325

20 MARCH 1973

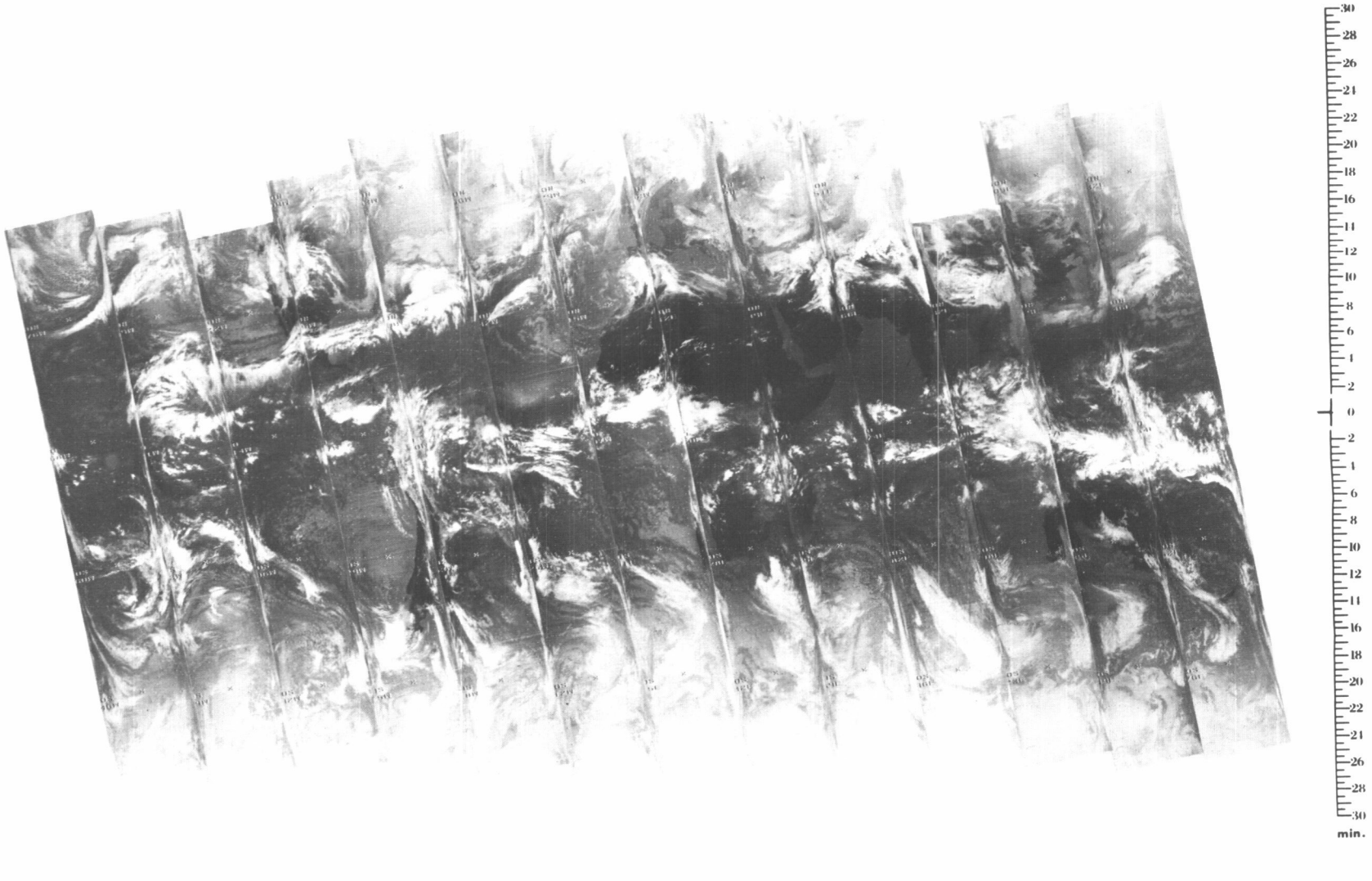
11.5 μm




1338 1337 1336 1335 1334 1333 1332 1331 1330 1329 1328 1327 1326 1325

20 MARCH 1973

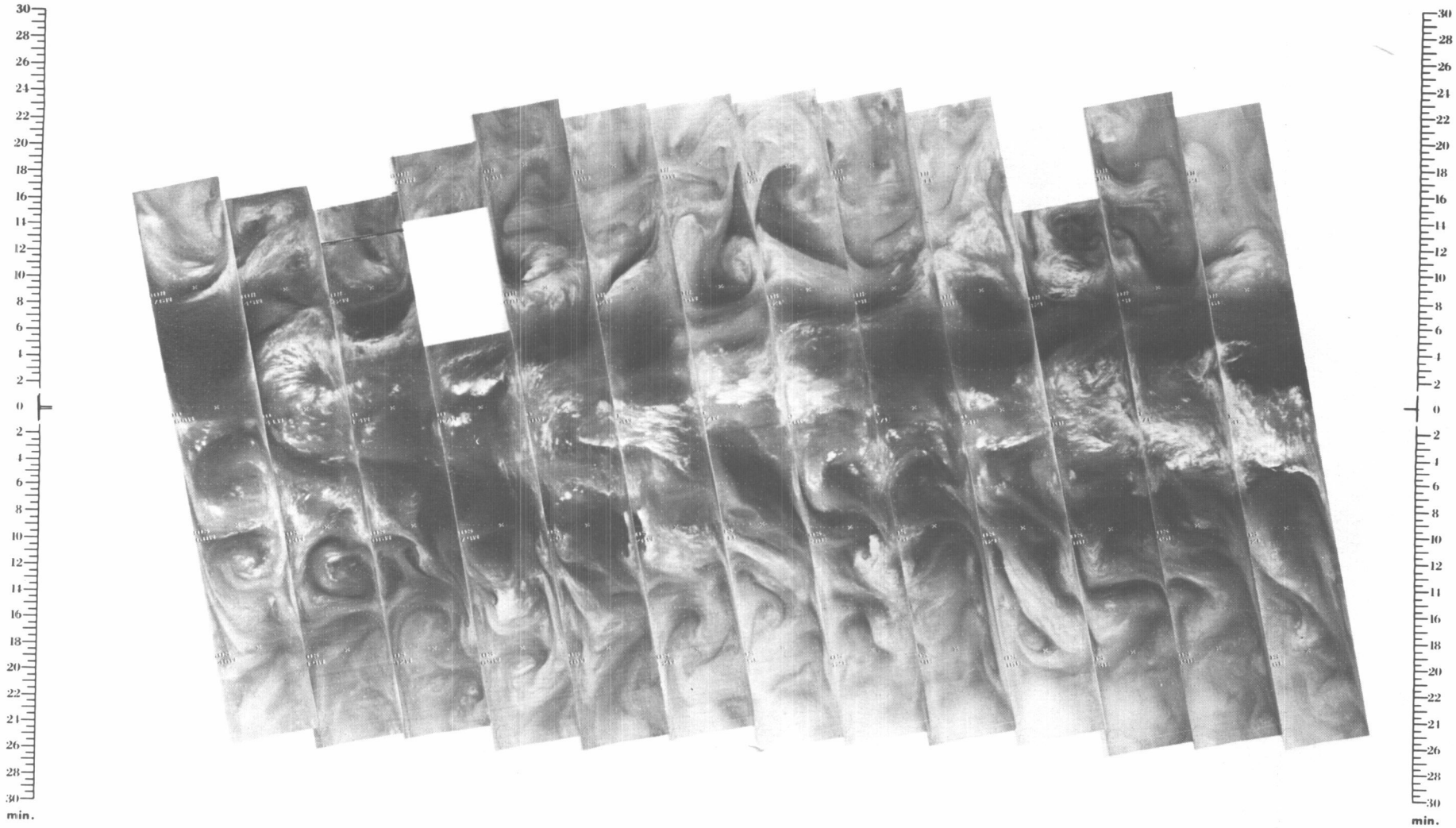
6.7 μm




1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339

21 MARCH 1973

11.5 μm

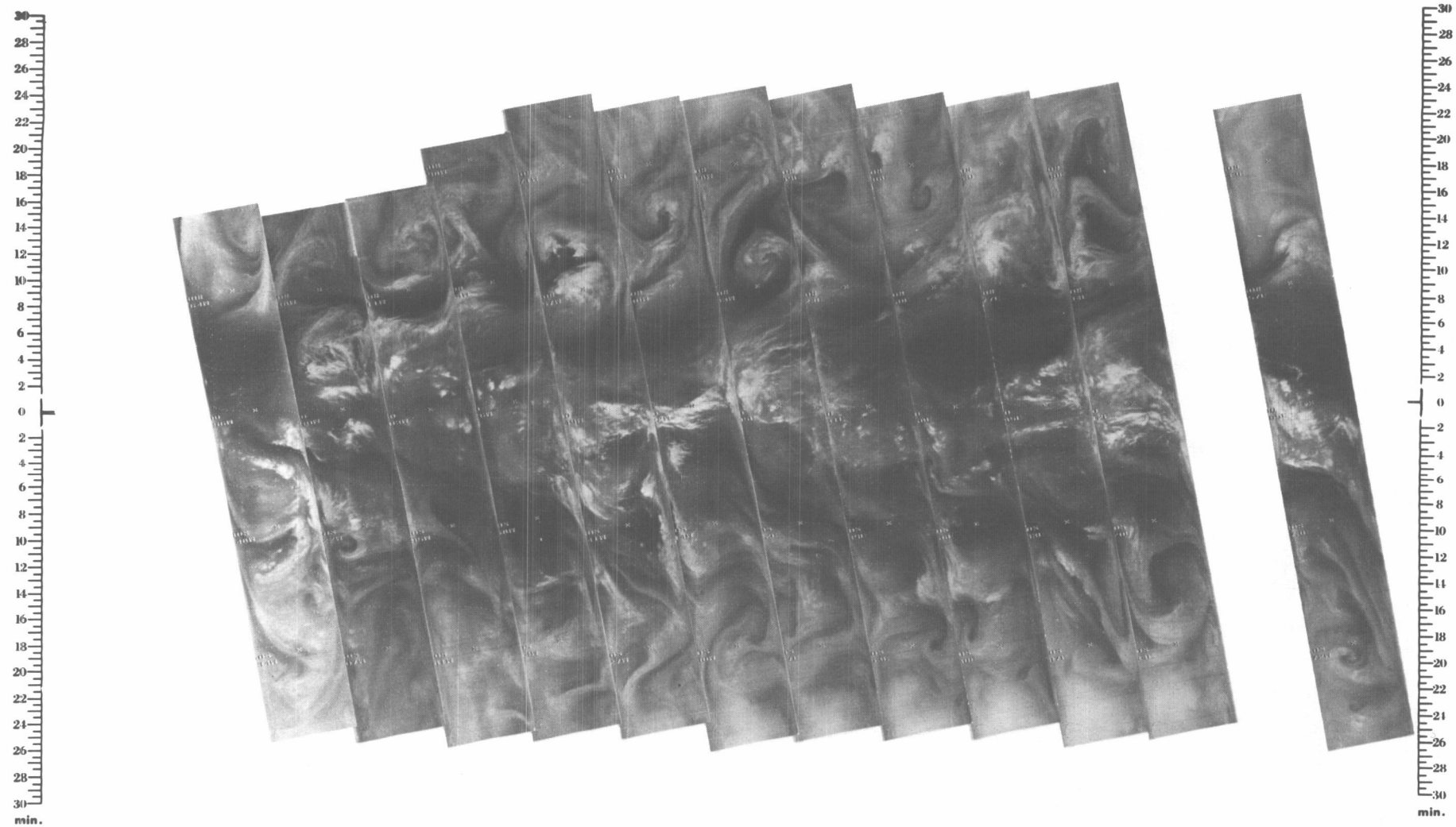



1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339

21 MARCH 1973

6.7 μm

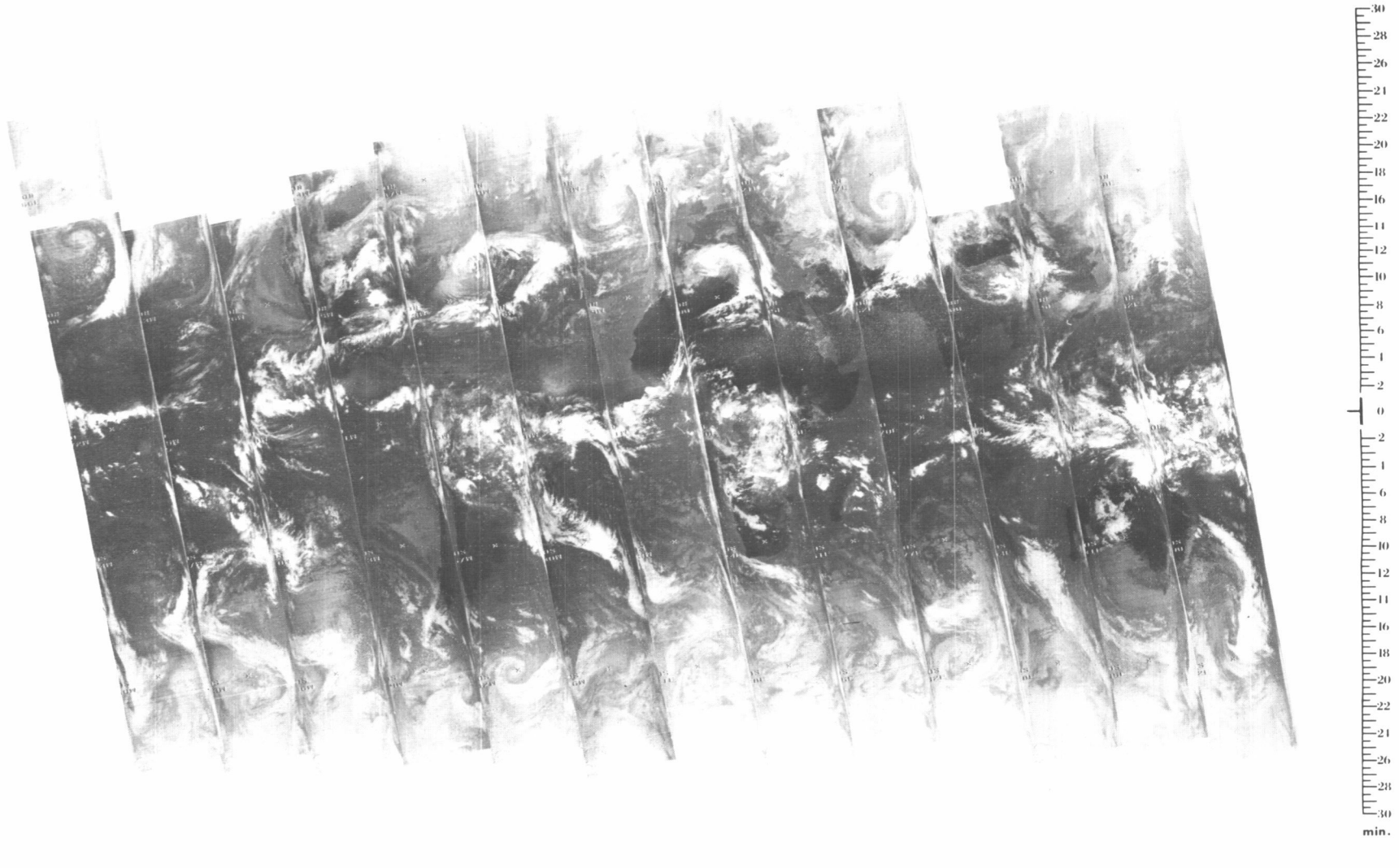
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365
22 MARCH 1973
11.5 μm




1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352

22 MARCH 1973

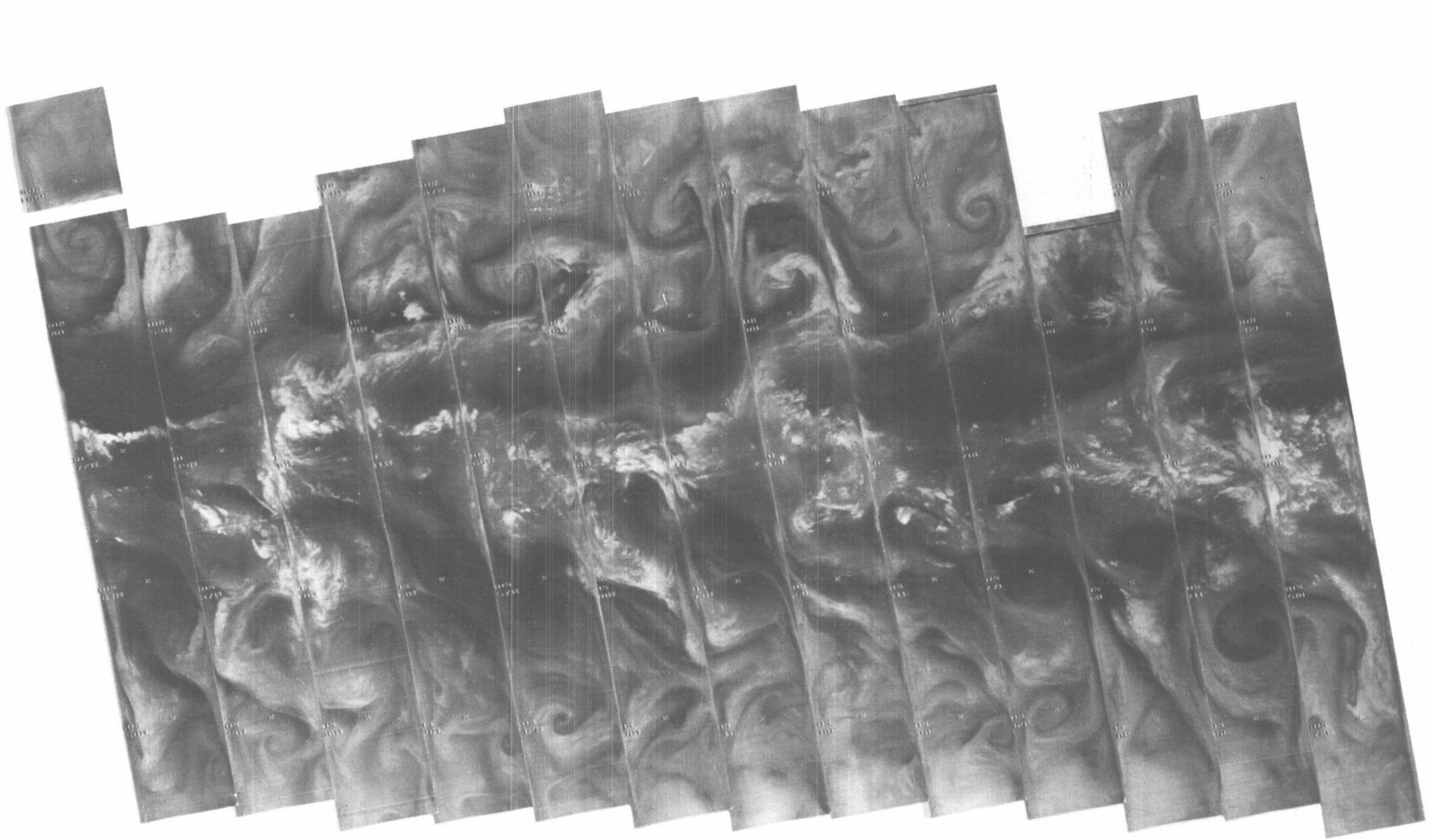
6.7 μm



1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366

23 MARCH 1973

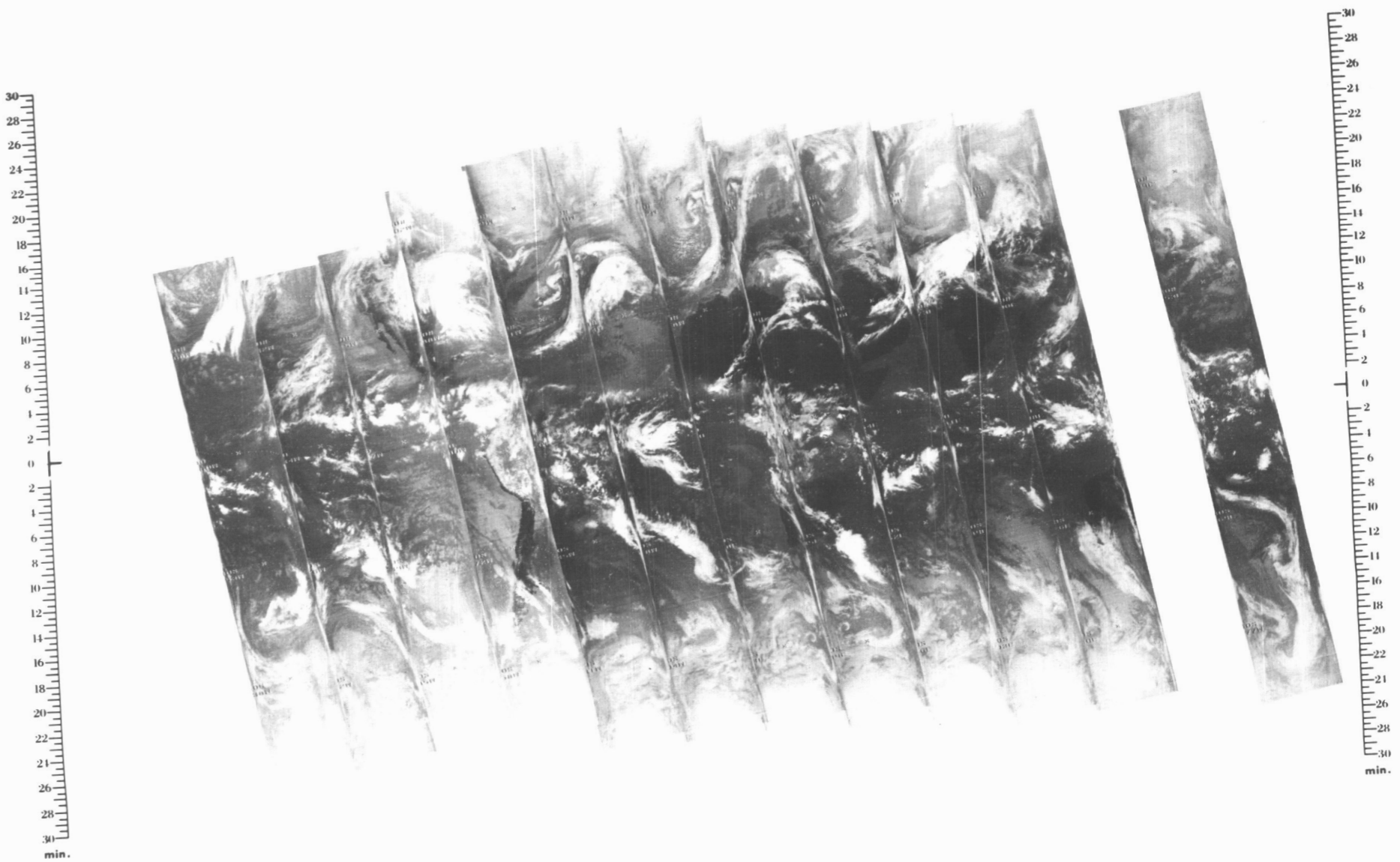
11.5 μm




1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366

23 MARCH 1973

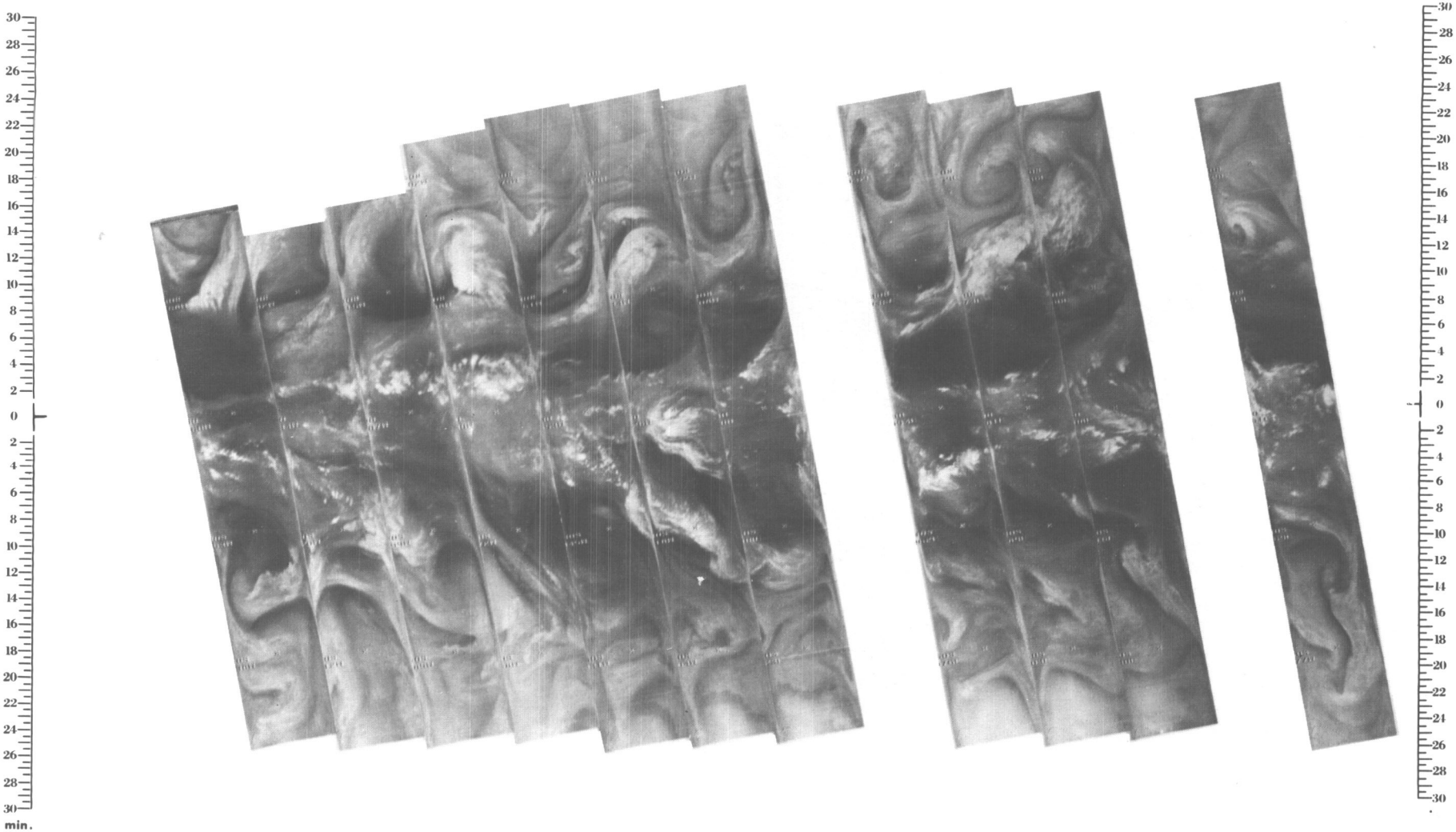
6.7 μm




1392 1391 1390 1389 1388 1387 1386 1385 1384 1383 1382 1381 1380 1379

24 MARCH 1973

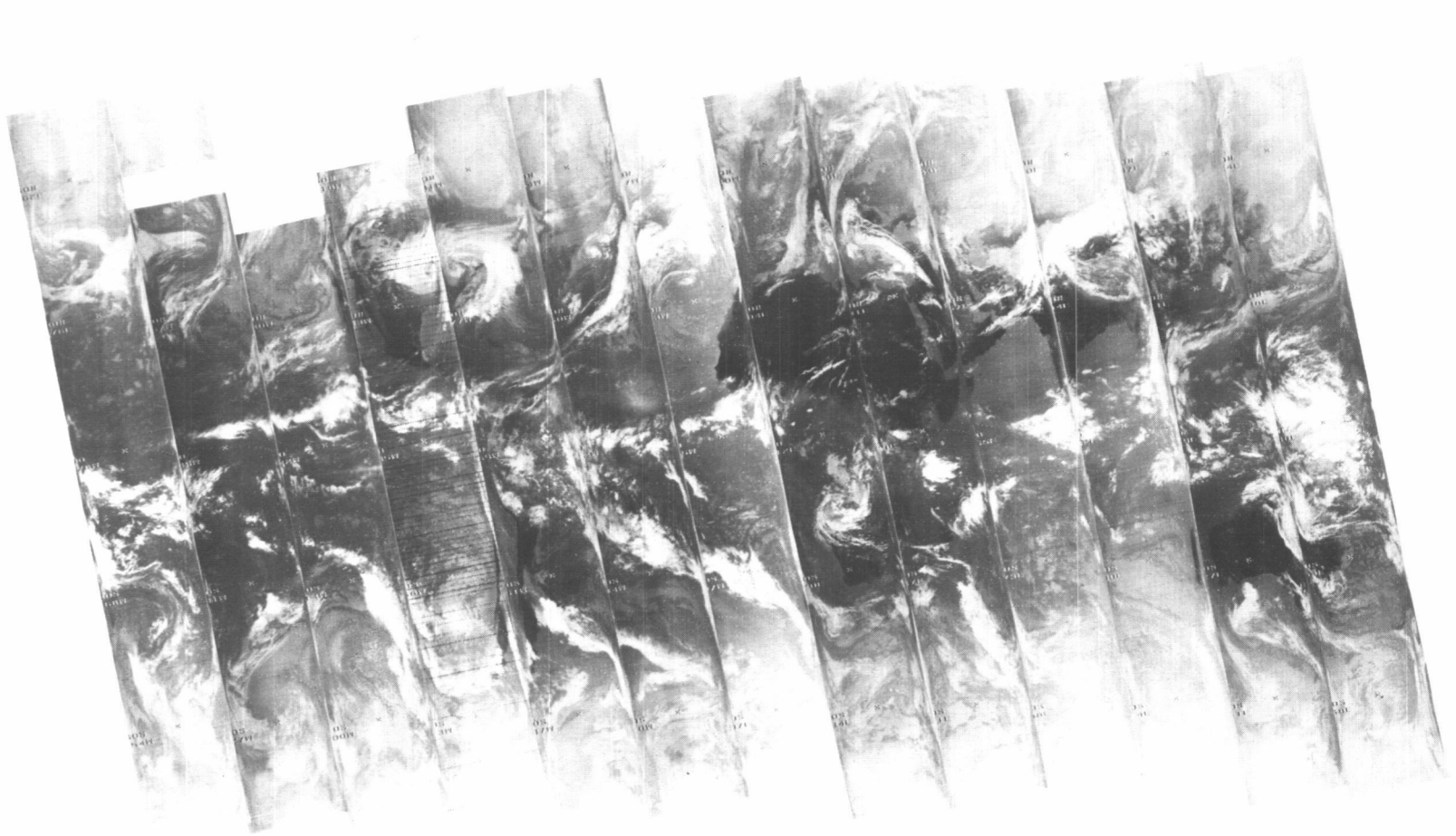
11.5 μm




1392 1391 1390 1389 1388 1387 1386 1385 1384 1383 1382 1381 1380 1379

24 MARCH 1973

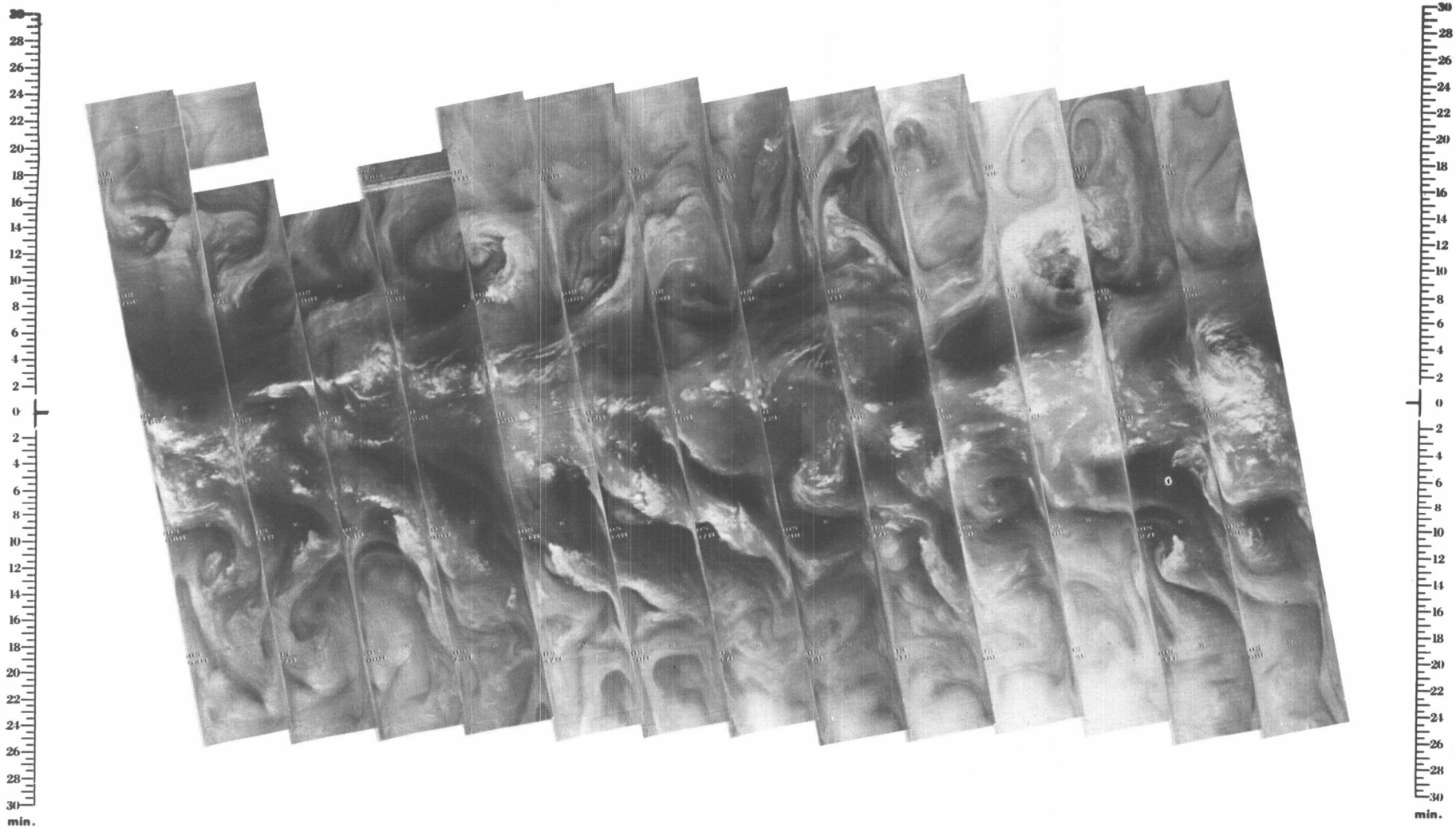
6.7 μm



1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393

25 MARCH 1973

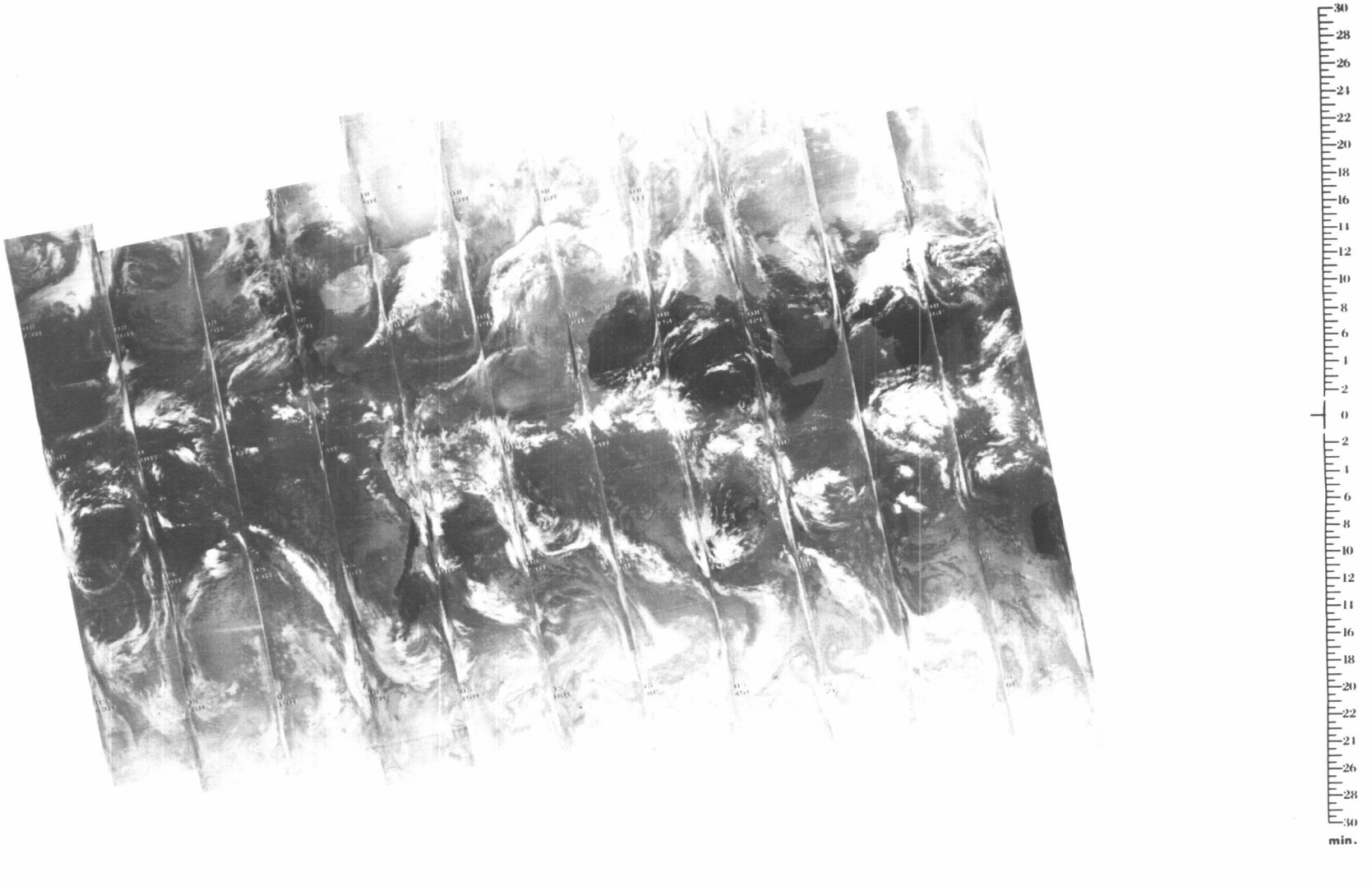
11.5 μm




1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393

25 MARCH 1973

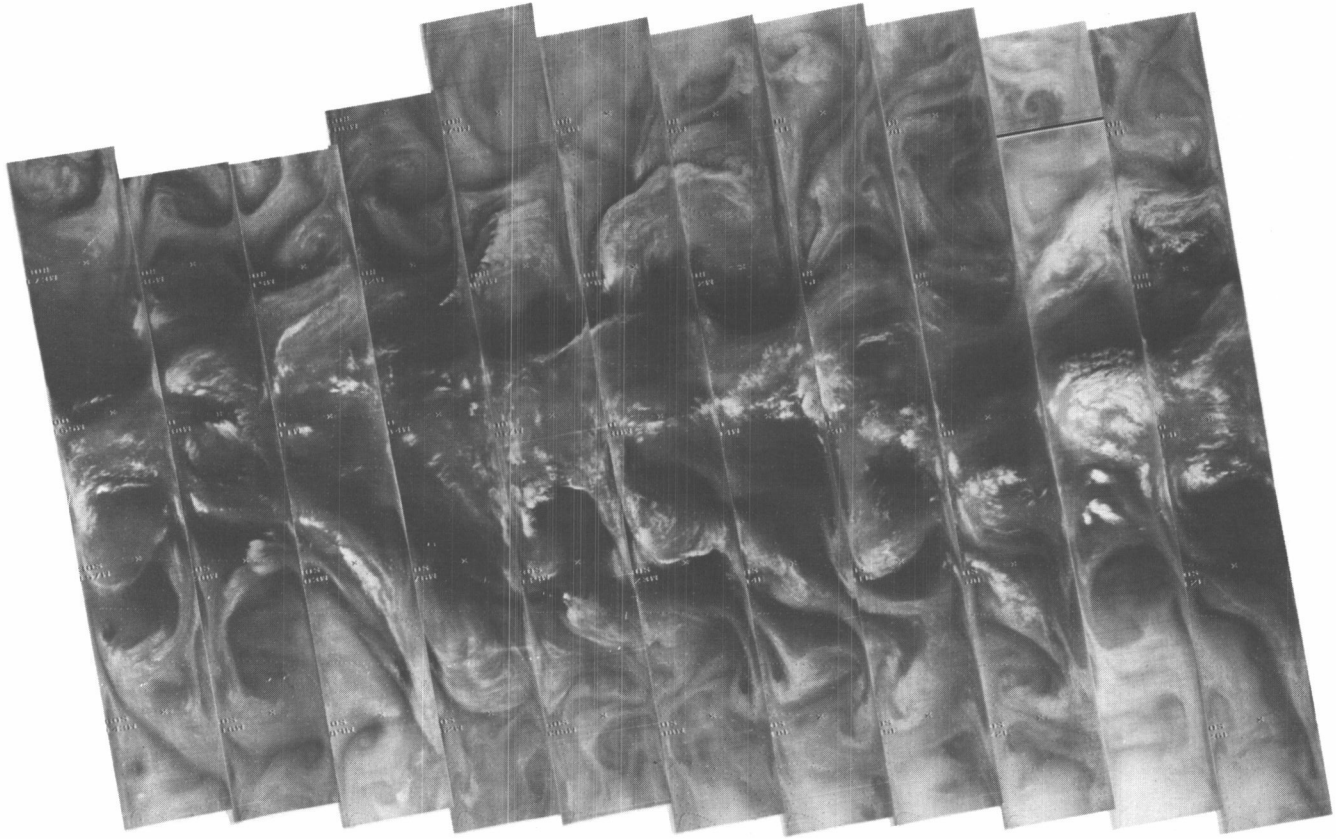
6.7 μm




1418 1417 1416 1415 1414 1413 1412 1411 1410 1409 1408 1407 1406

26 MARCH 1973

11.5 μm



1418 1417 1416 1415 1414 1413 1412 1411 1410 1409 1408 1407 1406

26 MARCH 1973

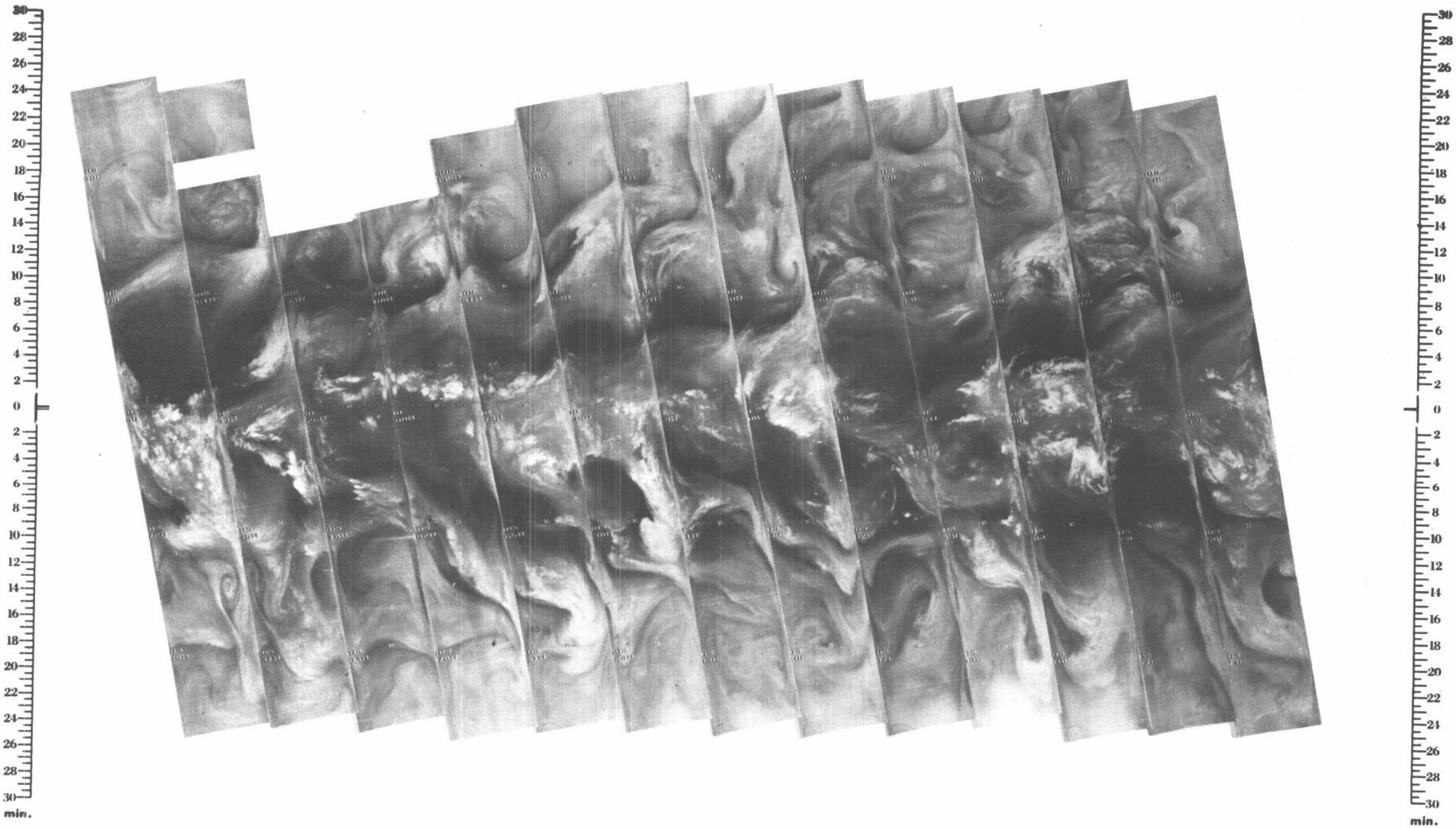
6.7 μm




1432 1431 1430 1429 1428 1427 1426 1425 1424 1423 1422 1421 1420 1419

27 MARCH 1973

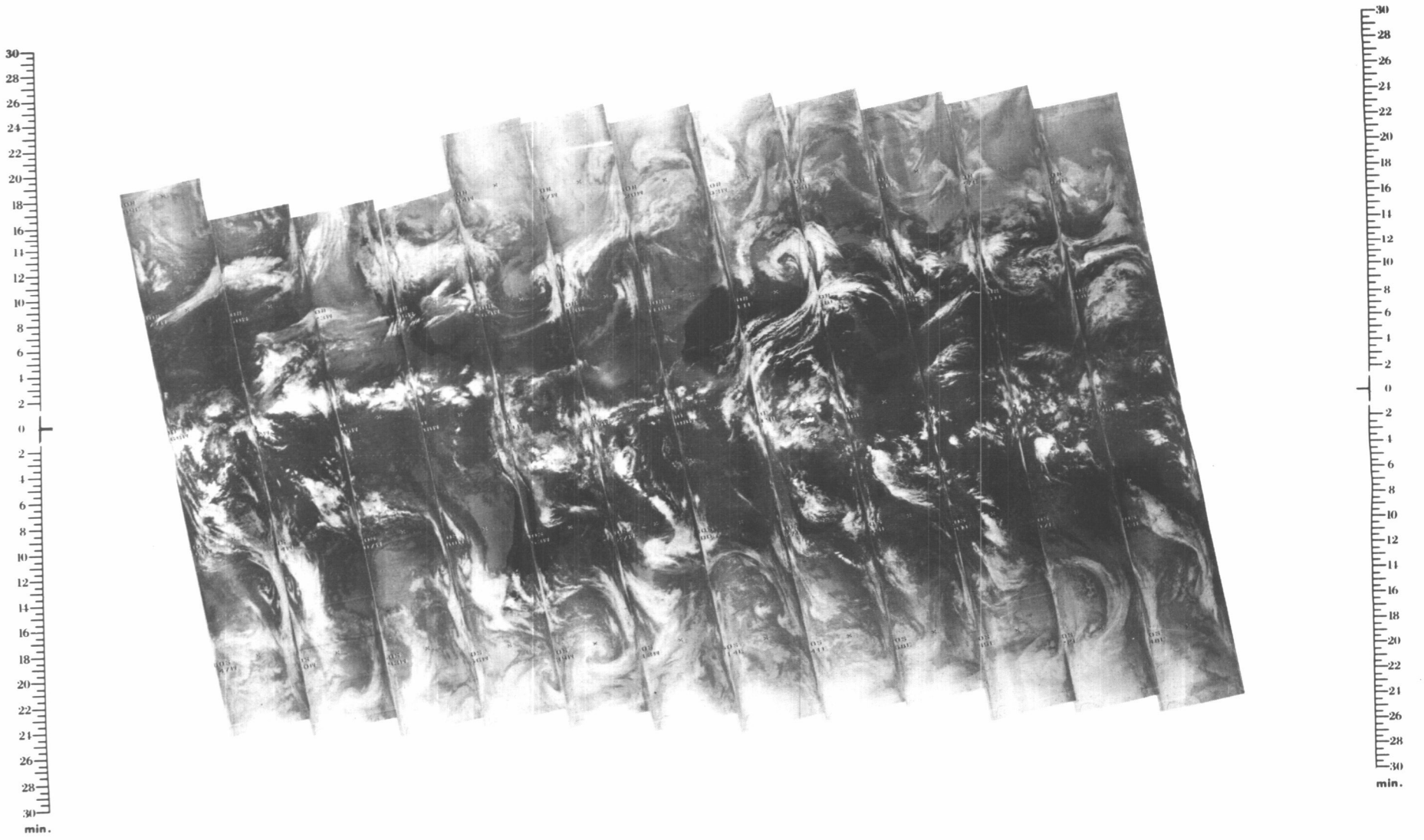
11.5 μm




1432 1431 1430 1429 1428 1427 1426 1425 1424 1423 1422 1421 1420 1419

27 MARCH 1973

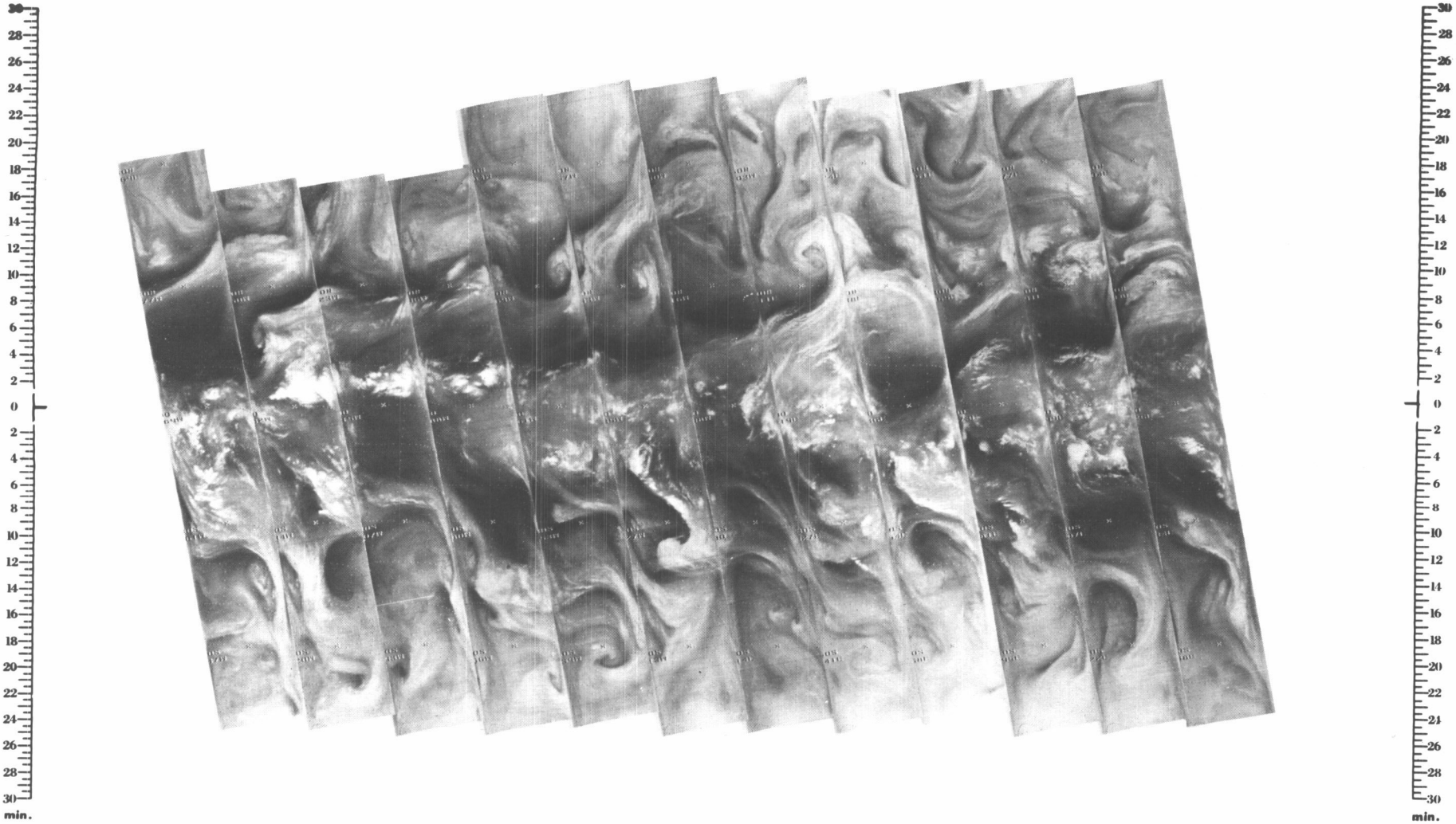
6.7 μm




1445 1444 1443 1442 1441 1440 1439 1438 1437 1436 1435 1434 1433

28 MARCH 1973

11.5 μm




1445 1444 1443 1442 1441 1440 1439 1438 1437 1436 1435 1434 1433

28 MARCH 1973

6.7 μm




1459 1458 1457 1456 1455 1454 1453 1452 1451 1450 1449 1448 1447 1446

29 MARCH 1973

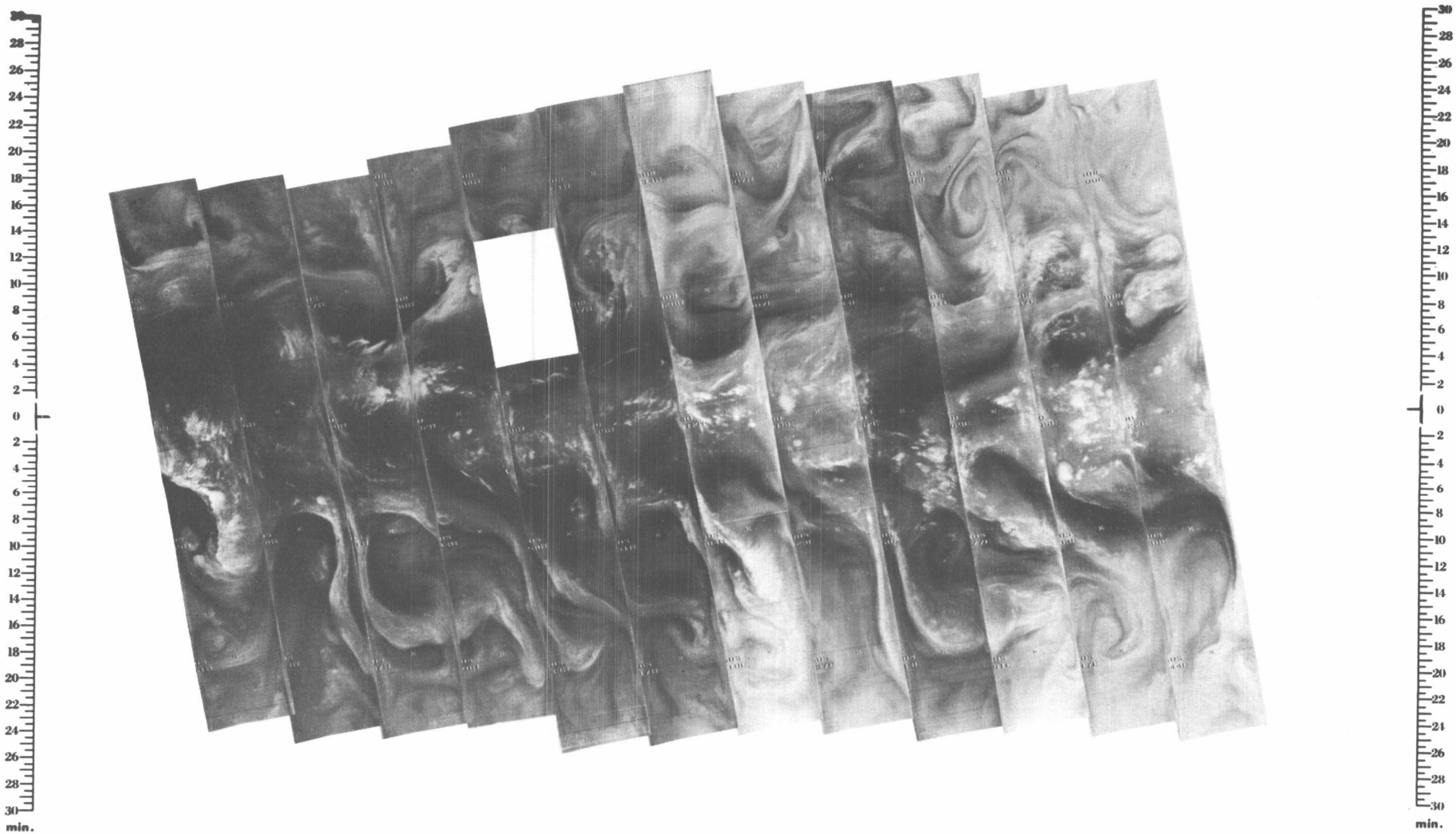
11.5 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.
1459 1458 1457 1456 1455 1454 1453 1452 1451 1450 1449 1448 1447 1446
29 MARCH 1973
6.7 μm

1472 1471 1470 1469 1468 1467 1466 1465 1464 1463 1462 1461 1460

30 MARCH 1973

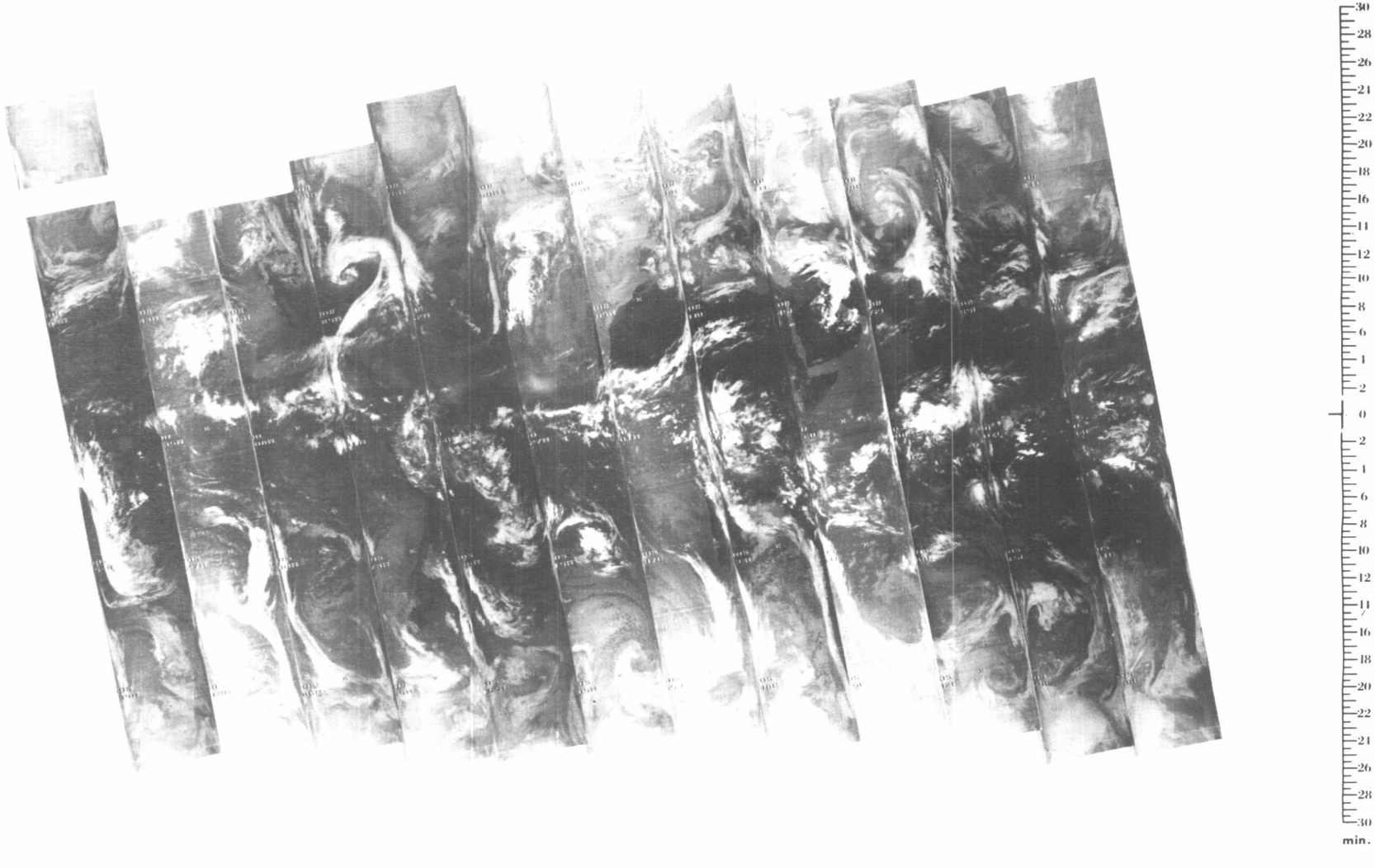
11.5 μm




1472 1471 1470 1469 1468 1467 1466 1465 1464 1463 1462 1461 1460

30 MARCH 1973

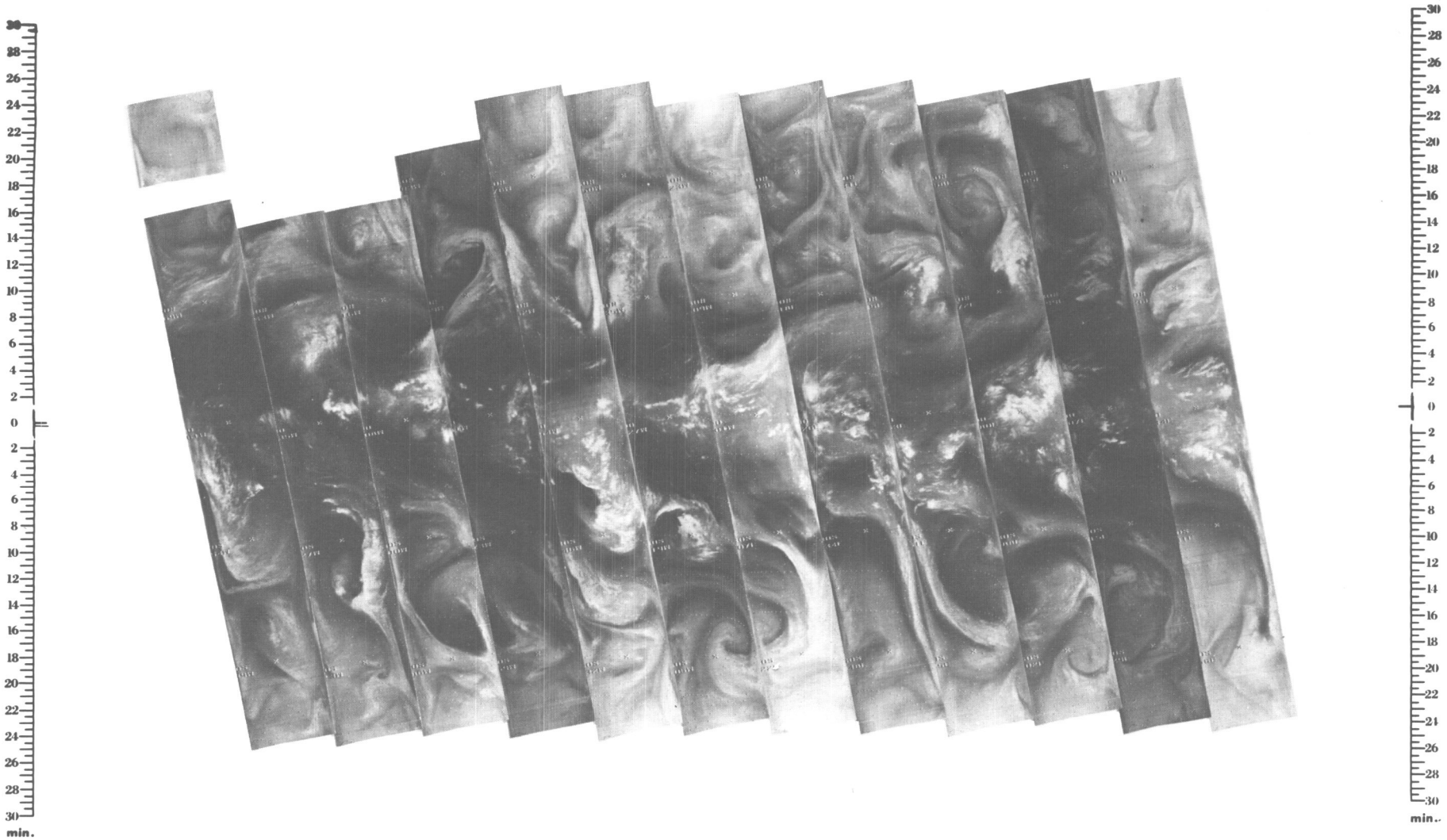
6.7 μm




1485 1484 1483 1482 1481 1480 1479 1478 1477 1476 1475 1474 1473

31 MARCH 1973

11.5 μm




1485 1484 1483 1482 1481 1480 1479 1478 1477 1476 1475 1474 1473

31 MARCH 1973

6.7 μm

SECTION 5

## CORRECTIONS TO THE NIMBUS 5 USER'S GUIDE

This section presents all corrections or additions to The Nimbus 5 User's Guide which now are known to be necessary. If additional corrections are required, they will appear in a subsequent catalog. All previous corrections will be carried forward cumulatively into each new catalog.

### 5.1 THIR Corrections to the User's Guide

Table 5-1
(First presented in Volume 1)
This table replaces Table 2-3 (page 31) in The Nimbus 5 User's Guide.

Table 2-3

THIR OUTPUT VOLTAGES VERSUS EQUIVALENT BLACKBODY TEMPERATURES AT DIFFERENT BOLOMETER TEMPERATURES FOR THE 11.5 μm CHANNEL.

| | | Bolometer Temperature (°C) | | | | |
|---|---|---|---|---|---|---|
| | | 0 | 10 | 20 | 30 | 40 |
| Blackbody Temperature (°K) | 0* | -0.405 | -0.407 | -0.413 | -0.421 | -0.425 |
| | 180 | -0.618 | -0.617 | -0.617 | -0.617 | -0.606 |
| | 190 | -0.711 | -0.709 | -0.706 | -0.702 | -0.685 |
| | 200 | -0.829 | -0.825 | -0.820 | -0.811 | -0.786 |
| | 210 | -0.976 | -0.970 | -0.961 | -0.946 | -0.911 |
| | 220 | -1.153 | -1.144 | -1.130 | -1.109 | -1.062 |
| | 230 | -1.363 | -1.351 | -1.332 | -1.302 | -1.240 |
| | 240 | -1.606 | -1.591 | -1.565 | -1.526 | -1.448 |

*Space level

Table 2-3 (Continued)

| Blackbody Temperature (°K) | Bolometer Temp. (°C) | | | | |
|---|---|---|---|---|---|
| | 0 | 10 | 20 | 30 | 40 |
| 250 | -1.886 | -1.867 | -1.834 | -1.783 | -1.686 |
| 260 | -2.202 | -2.178 | -2.137 | -2.074 | -1.955 |
| 270 | -2.555 | -2.526 | -2.476 | -2.399 | -2.256 |
| 280 | -2.946 | -2.911 | -2.851 | -2.759 | -2.589 |
| 290 | -3.375 | -3.334 | -3.262 | -3.153 | -2.954 |
| 300 | -3.841 | -3.793 | -3.709 | -3.582 | -3.352 |
| 310 | -4.345 | -4.289 | -4.192 | -4.045 | -3.781 |
| 320 | -4.886 | -4.822 | -4.711 | -4.543 | -4.241 |
| 330 | -5.463 | -5.391 | -5.264 | -5.074 | -4.733 |

Table 5-2
(First presented in Volume 1)
This table replaces Table 2-4 (page 32) in The Nimbus 5 User's Guide.

Table 2-4

THIR OUTPUT VOLTAGES VERSUS EQUIVALENT BLACKBODY TEMPERATURES AT DIFFERENT BOLOMETER TEMPERATURES FOR THE 6.7 $\mu$m CHANNEL

| | | Bolometer Temp. (°C) | | | | |
|---|---|---|---|---|---|---|
| | | 0 | 10 | 20 | 30 | 40 |
| Blackbody Temperature (°K) | 0* | -0.507 | -0.518 | -0.532 | -0.556 | -0.576 |
| | 180 | -0.607 | -0.618 | -0.632 | -0.655 | -0.674 |
| | 185 | -0.644 | -0.654 | -0.669 | -0.692 | -0.710 |
| | 190 | -0.692 | -0.702 | -0.716 | -0.739 | -0.756 |
| | 195 | -0.752 | -0.762 | -0.776 | -0.798 | -0.814 |
| | 200 | -0.827 | -0.838 | -0.851 | -0.873 | -0.888 |
| | 205 | -0.921 | -0.931 | -0.944 | -0.966 | -0.978 |
| | 210 | -1.035 | -1.045 | -1.058 | -1.078 | -1.089 |
| | 215 | -1.172 | -1.182 | -1.195 | -1.215 | -1.223 |
| | 220 | -1.337 | -1.347 | -1.359 | -1.379 | -1.383 |
| | 225 | -1.533 | -1.543 | -1.554 | -1.573 | -1.573 |
| | 230 | -1.764 | -1.774 | -1.784 | -1.801 | -1.797 |
| | 235 | -2.033 | -2.043 | -2.052 | -2.068 | -2.059 |

*Space level

Table 2-4 (Continued)

| | | Bolometer Temp. (°C) | | | | |
|---|---|---|---|---|---|---|
| | | 0 | 10 | 20 | 30 | 40 |
| Blackbody temperature (°K) | 240 | -2.350 | -2.355 | -2.363 | -2.378 | -2.362 |
| | 245 | -2.704 | -2.714 | -2.721 | -2.734 | -2.711 |
| | 250 | -3.115 | -3.125 | -3.131 | -3.142 | -3.111 |
| | 255 | -3.582 | -3.592 | -3.597 | -3.605 | -3.565 |
| | 260 | -4.110 | -4.119 | -4.122 | -4.127 | -4.077 |
| | 265 | -4.704 | -4.714 | -4.715 | -4.717 | -4.656 |
| | 270 | -5.367 | -5.378 | -5.376 | -5.375 | -5.300 |

## 5.2 SCMR Corrections to the User's Guide

There are no SCMR corrections to the User's Guide for this catalog.

## 5.3 ESMR Corrections to the User's Guide (New)

Table 4-4 of The Nimbus 5 User's Guide will not be supplied. Table 5-3, below, is to be used in its place.

As stated in The Nimbus 5 Data Catalog, vol. 1, the antenna properties changed after final calibration and rendered those numbers useless. The cause of the gross variations in antenna properties which were observed soon after launch has been determined to be a cross-polarized grating lobe. This finding has been confirmed through measurements on the engineering model and on the proto/flight model of the ESMR, and through theoretical calculations. The problem does not exist for the near-nadir beam positions, so those positions are unaffected. A quantitative discussion of this problem is included in the report of the Nimbus 5 ESMR Anomaly Review Committee.

An empirical calibration has been developed which removes the effect of the lobe structure and antenna loss, which vary with position, and roughly corrects for angular variations in viewing geometry. In this calibration scheme the antenna loss ratio is assumed to be 1.56 for all temperatures and beam positions, and a linear correction is applied to the data. The correction is given by:

$$T_i' = A_i T_i + B_i$$

where $T_i'$ is the corrected brightness temperature for the i'th beam position and $T_i$ is the brightness temperature calculated with the assumption of a constant antenna loss. $A_i$ and $B_i$ are empirically derived constants given below in Table 5-3.

TABLE 5-3

CONSTANTS FOR LINEAR CORRECTION OF BRIGHTNESS TEMPERATURES CORRESPONDING TO ESMR BEAM POSITIONS

| Beam Position | A | B(°K) |
|---|---|---|
| 1 | 1.058 | 4 |
| 2 | 1.027 | 10 |
| 3 | .990 | 16 |
| 4 | .980 | 14 |
| 5 | .963 | 17 |
| 6 | .987 | 15 |
| 7 | .970 | 17 |
| 8 | .961 | 19 |
| 9 | .969 | 18 |
| 10 | .980 | 16 |
| 11 | .980 | 17 |
| 12 | 1.018 | 10 |
| 13 | .999 | 12 |
| 14 | .989 | 13 |
| 15 | .975 | 15 |
| 16 | .974 | 15 |
| 17 | .994 | 10 |
| 18 | 1.026 | 8 |
| 19 | 1.038 | 5 |
| 20 | 1.018 | 13 |
| 21 | 1.034 | 13 |
| 22 | 1.099 | 4 |
| 23 | 1.082 | 9 |
| 24 | 1.048 | 8 |
| 25 | .986 | 12 |
| 26 | .960 | 10 |
| 27 | .941 | 11 |
| 28 | .947 | 10 |
| 29 | .937 | 11 |
| 30 | .942 | 10 |

TABLE 5-3 (continued)

| Beam Position | A | B(°K) |
|---|---|---|
| 31 | .963 | 6 |
| 32 | 1.003 | -3 |
| 33 | 1.002 | -3 |
| 34 | .976 | 1 |
| 35 | .988 | -1 |
| 36 | 1.004 | 0 |
| 37-42 | 1.000 | 0 |
| 43 | 1.002 | -3 |
| 44 | .962 | 4 |
| 45 | .960 | 4 |
| 46 | .980 | 2 |
| 47 | .966 | 4 |
| 48 | .966 | 6 |
| 49 | .948 | 10 |
| 50 | .949 | 10 |
| 51 | .934 | 12 |
| 52 | .945 | 13 |
| 53 | .988 | 11 |
| 54 | 1.019 | 11 |
| 55 | 1.041 | 11 |
| 56 | 1.049 | 14 |
| 57 | 1.042 | 15 |
| 58 | 1.019 | 16 |
| 59 | 1.015 | 15 |
| 60 | 1.012 | 12 |
| 61 | .993 | 13 |
| 62 | .976 | 15 |
| 63 | .998 | 12 |
| 64 | .983 | 14 |
| 65 | .998 | 14 |
| 66 | .970 | 19 |
| 67 | .982 | 18 |
| 68 | .980 | 19 |
| 69 | .955 | 24 |
| 70 | .974 | 22 |
| 71 | .941 | 26 |
| 72 | .969 | 22 |
| 73 | .949 | 30 |
| 74 | .967 | 22 |
| 75 | .956 | 27 |
| 76 | .959 | 28 |
| 77 | .969 | 26 |
| 78 | 1.030 | 13 |

## 5.4 ITPR Corrections to the User's Guide

Tables 5-4 and 5-5, below, replace Table 5-3 of The Nimbus 5 User's Guide.

TABLE 5-4

ITPR CALIBRATION CONSTANTS FOR THE PERIOD 2/6/73 - 3/31/73

$$R_s = a_o + a_1 V$$

$R_s$ = radiance of the scene (mw/m$^2$ ster cm$^{-1}$)

V = digital counts

| Channel | $a_o$* | $a_1$ |
|---|---|---|
| 1 | 1.061 | -0.001782 |
| 2 | 141.775 | -0.1801 |
| 3 | 166.840 | -0.2037 |
| 4 | 172.974 | -0.2054 |
| 5 | 174.034 | -0.1931 |
| 6 | 175.040 | -0.1963 |
| 7 | 170.288 | -0.1988 |

*The calibration constant $a_o$ now includes the radiance of the chopper reference blackbody.

The following are changes to the verbiage in Section 5 of The Nimbus 5 User's Guide:

- The table, Nimbus 5 Compacted Data Format, at the bottom of page 125 should read:

| Word | Format | Description |
|---|---|---|
| 1 | I | GMT (seconds) |
| 2 | Spec 1 | Julian Day and Year |
| 3 - 162 | Spec 2 (F1, F3) | Calibrated IR Data |
| 163 - 182 | F1 | Latitude |
| 183 - 202 | F1 | Longitude |
| 203 - 222 | F1 | Zenith |
| 223 | I | Grid Type (0 = Nadir) (1, 2, or 3 = Scan) |
| 224 - 225 | - | Zero Fill |

TABLE 5-5
(First presented in Volume 1)

ITPR CALIBRATION CONSTANTS FOR THE
PERIOD 12/12/72 - 2/6/73

$$R_s = a_o + a_1 V$$

$R_s$ = radiance of the scene ($mw/m^2$ ster $cm^{-1}$)

V = digital counts

| Channel | $a_o$* | $a_1$ |
|---|---|---|
| 1 | 1.0495 | -0.001773 |
| 2 | 141.78 | -0.1813 |
| 3 | 166.93 | -0.2046 |
| 4 | 173.02 | -0.2065 |
| 5 | 174.02 | -0.1940 |
| 6 | 174.99 | -0.1977 |
| 7 | 170.18 | -0.1995 |

*The calibration constant $a_o$ now includes the radiance of the chopper reference blackbody.

- On page 126 in the paragraph describing Spec 2, the last two lines of that paragraph should read:

  ". . .4-word pattern will be repeated thru word 162, resulting in 40 sets of IR measurements."

- The next paragraph (on page 126, after description of Spec 2) should read:

  "Each data record will contain 5 major frames of data (225 24-bit words for each major frame) with a total of 1125 24-bit words, or 450 60-bit words. Because major frames will contain either 34, 36 or 40 earth views for each channel, there will be zero fill in the IR data words when 34 or 36 views are present, and the corresponding latitudes and longitudes will be fictitious. This applies also to data samples which occur during retrace. Zero fill will be used to produce the constant-length record when the number of major frames in a day is not a multiple of 5."

- In the next paragraph the following changes should be made:

  Line 1: ". . .with a density of 556 6-bit bytes. . ."
  should read: ". . .with a density of 800 6-bit bytes. . ."

Line 3: ". . .per day at 320 major frames. . .about 640 records. . ."
should read: ". . .per day at 400 major frames. . .about 960 records. . ."

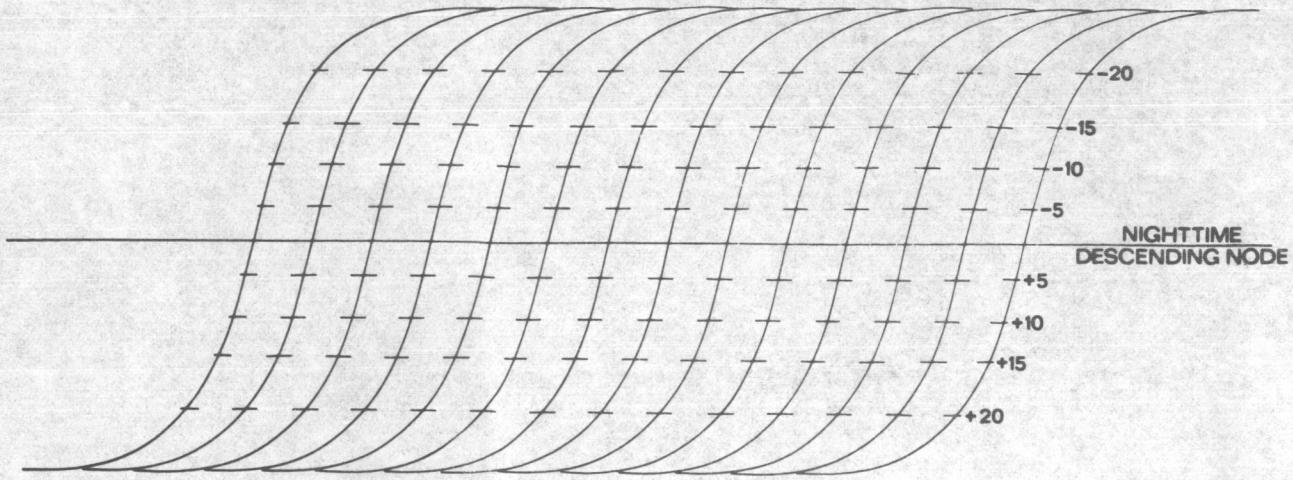
Line 4: ". . .will contain about 5 days. . ."
should read: ". . .will contain about 4 days. . ."

## 5.5 SCR Corrections to the User's Guide

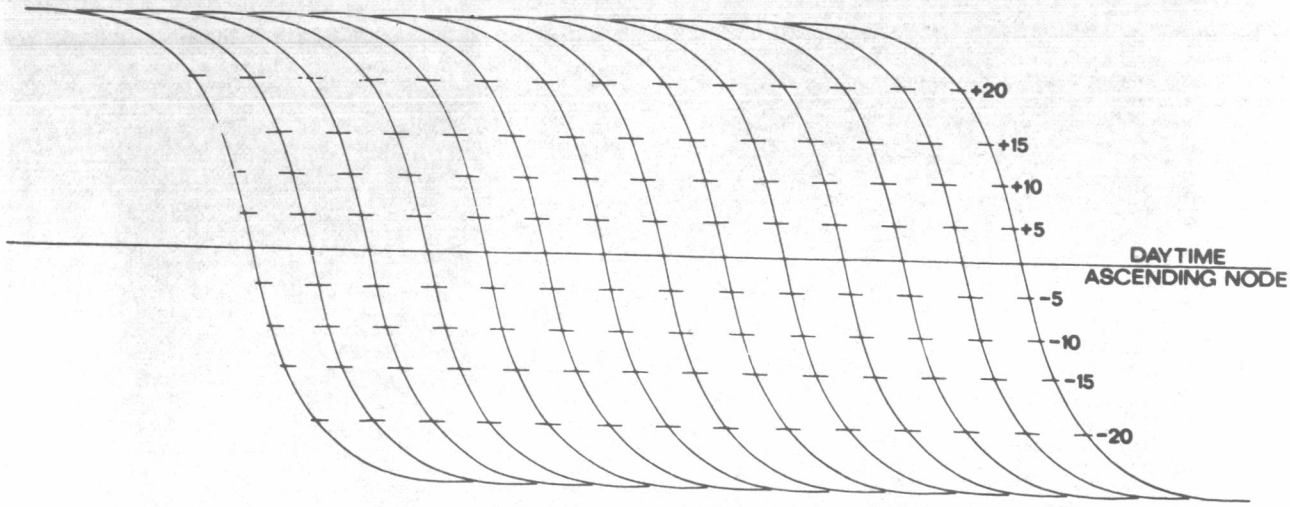
There are no SCR corrections to the User's Guide for this catalog.

## 5.6 NEMS Corrections to the User's Guide

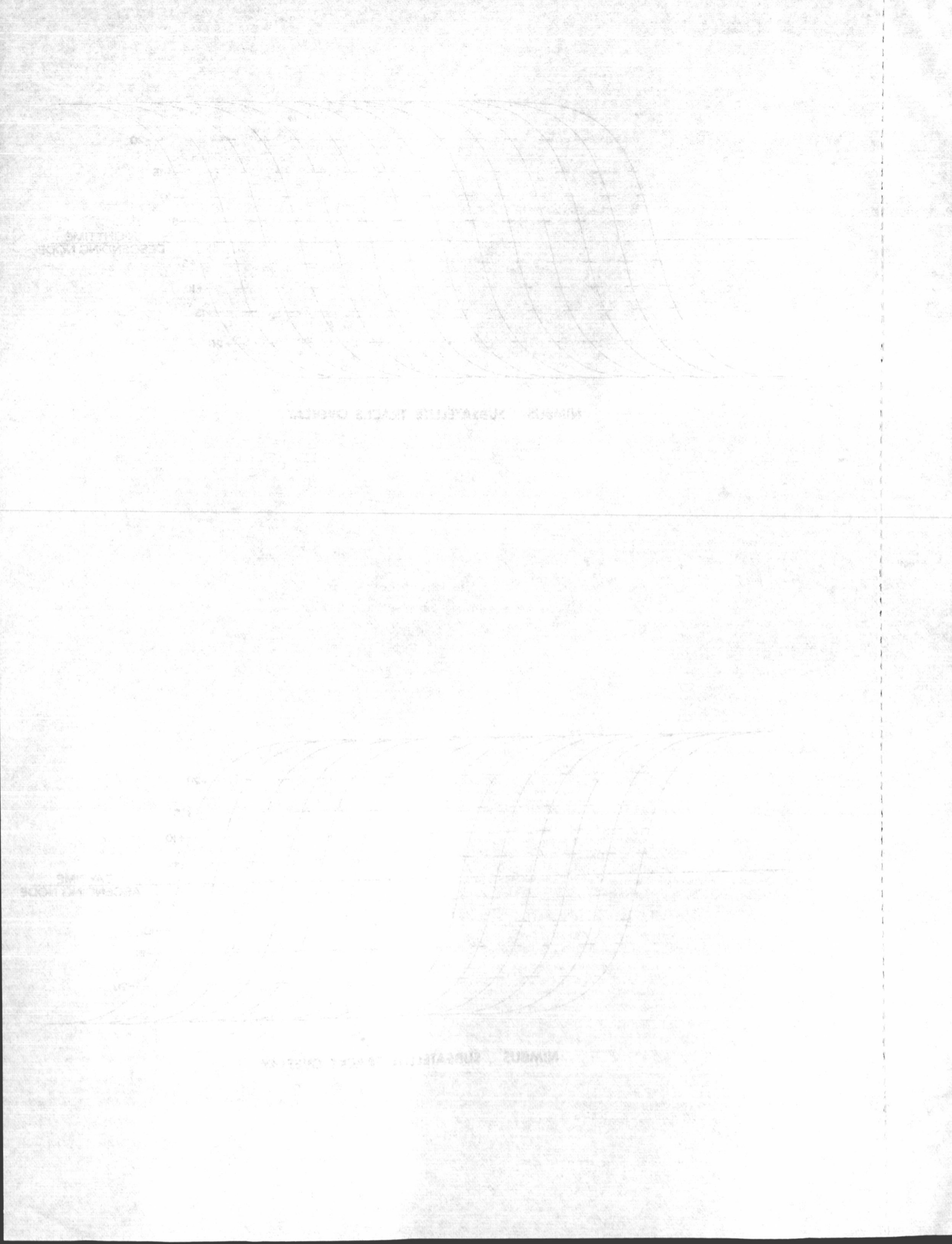
There are no NEMS corrections to the User's Guide for this catalog.

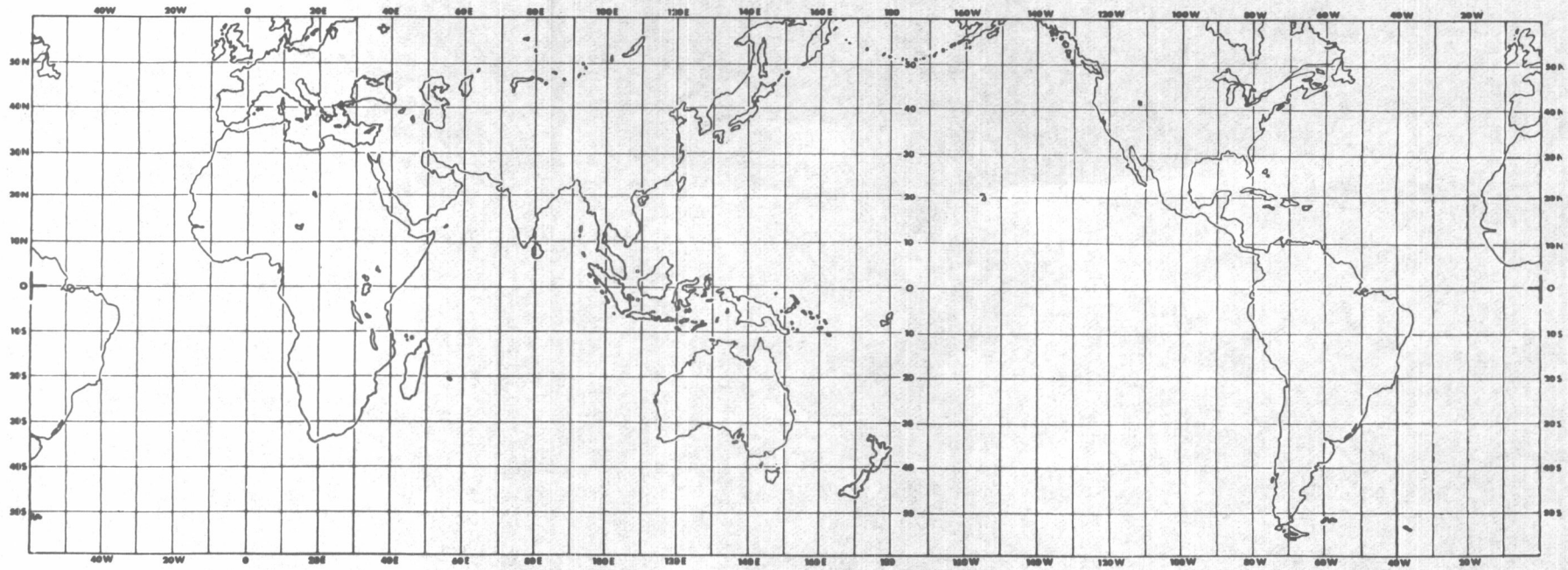



NIMBUS SUBSATELLITE TRACKS OVERLAY

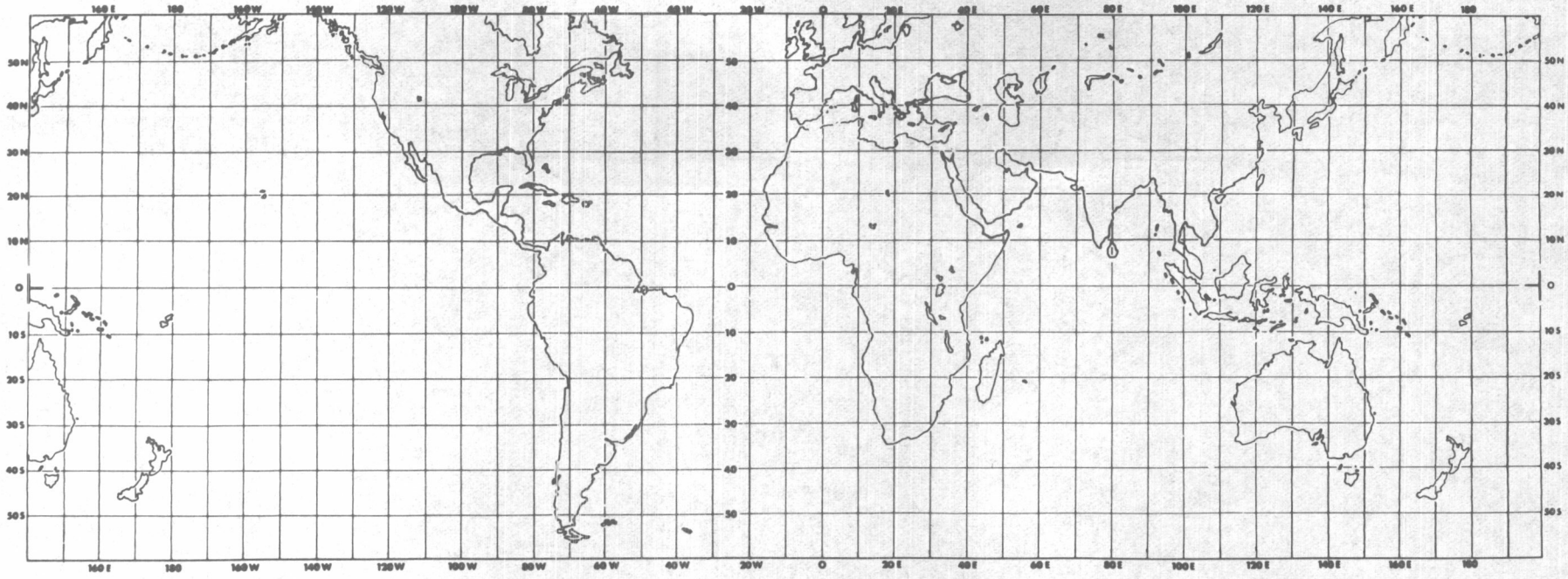



NIMBUS SUBSATELLITE TRACKS OVERLAY






**Location Guide**
**Average Scale for Nimbus**
**THIR Nighttime Montages**




**Location Guide**
**Average Scale for Nimbus**
**THIR Daytime Montages**